stitutions, 17 middlo schools, 26 clemontary schook, and 14 winter schools. This shows what the government does for the bengit of its formera The highor instruction is three-fold: (I) Unirersal and economical, (2) spociai eseientific tenohing as to the most advantageous production of useful plants and animals, (3) building on the sum of experience, and combining the other two into an organic whole, the organization and direction of the farm. At all tho schools, theory and practice are united.

The station at Moeckern, like others, is in charge of a regularly educated man, who has passed his examination, and ho is called the director of the station. Ho is appointed by tho government, and is expected to conduct exporiments at his discretion, to omploy necessary assistants, and to publish, from time to time, in pamphlet form, the results obtaincd, this publication being called Die Versuchsstation, the experiment station.
$I$ beureve that the first instance in which the consumption of ice was shown to have been followed by an outbreak of disease is that recorded in the "Seventh Annual Report of the Stute Board of Health of Massachusets"" The occurrence took place in ons of the laryc hotels at Ryo Beach, Now Hampshirs. At tho beginning of the season of 1875 about a thousand visitors were assembled at Ryo Beach, and a cone:derable number were attacked with a series of symptoms which led to the suspicion that thay had consumed some noxious article. The incidence of the disease was entirely confined to 300 persons occupying one of tho large hotels. The sauitary state of this hotel is said to have been exceptionally good, and, although suspicion seemed at first 17 attach to tha water supply, yet the disense was found to have atfected many who, "having apprehended trouble from the use of the water," which was simngly impregnated with salts of lime and magnesia, "had carefull: linited themselves since their arrival to othor beverages" Indeed, as the result of 6 caroful process of elimination, suspicion came at last to bo directeci to the ice furnished to the house. The water obtained by melting the ica was discolored and charged with suspended matior and gave off a decidedly disagreeable odur, the atmosphere of the icehouse was ofensive, and some persons who had used the ice away from the hotal were found to have suffered in the samo way froms violent illness. Tho ice in question had been derived from a local pond, the water of which was found to have become foul by long continued starnation ; one portion of the pond, measuring about five hundred feet in length and one hundred and fifty feet in width, was occupied by "a homogeneous mass of putrescent mattor." A piece of ice, care-
fully cleansed from all surfacs impurities, was then molted, and the water thins obtained was submitted to chemical analynis, the result boing the detection in it of a guantity of "decaying organic matter." The use of the ice had also in the meattime beon discontinued, and coincident with its disuse "there was abserved an abrupt anelioration in the aymptans of nearly all who had hithorto been ill." So, also, no fresh attacks oecurred during tho remainder of the season. Even among the moro educated classes there prevails an improssion that even if water is contaminated it is purified by freezing Many exporiments, hovever, have shown the fallacy of this view. In some of those recently made by Mr. C. P. Pelngra, tho American chomist, varions organic matters (urea, albumen, \&c.) were mixed with water, and the specimons were gradually frozen. A certain anount of purifieation did take place-the ice contained thirty and even forty per cent les. orgauic liquid. But a large amount of the added pollution remained, and the investugator, though expressing surprise that the parificution had been as great as it was, says the experinents aflorded abundant proof that wo ought not to tolerate the indscriminate collection of ieG-Populer Science Monthly for Nocember.

A Mr. Whitshead has been cartling the Euglish farmersin a manner to arouse them to competition with Nova Scotians and all outside. The Euncinh crup of Fruit is estimated at 9 million bushels, the inports exceed 4 millions, for which an expenditure of 9 millions of dullars goes out of Englayd ammaily. Mr. W shows how the Fiench fruit is collected by agents, and so carefully packed that cotain brunds are bouglt and yaid for on " nove of advice," and passed from agent to palcesman, and salesman to cistourer, wichouè inspection. It is asked, caunot English folk use English capital, Euglish intelligence, and English henesty to do as much for English fruit? Here is a lesson to more people than the Enclish. It is not capital and skill aud intelligence thant are so much wanted in the industrial ant commercinl world as Husestr. We do not mean the houcsty that comes atter repentance and ssstitution, but the sterling, straight furvara, selfish, Pritish honesty, that arises out of the well founded commorcial beliuf, that honesty is the best policy. The question now is not one of Morals but of Marketing. A man buys apples that not only loek well, and tiste well, and sell well, but ayples that aro sounc to the cse. French "producers of fruit are most areful and deligent in their cultivation, and Pruning is attended to with greal pains and skill by small proprietors in Franca among whom exists a wide-spread intelligence and a
keen sense of what is profitable and nieo ful for tho lund." Mr. Whitehend points out that Sugar is choaper in Eggland than any other Europan country, so that Eingligh Jams can be made to rival in any market of Earopo the home made conserves. Mr. Whitehend's olabomte supgres. tions which we havo oply briefty referred to, ure addressed to Eugligh furmers. We hope this faint echo of them will suggest to some of our Nova Scotians handowners, the immenso pussiuilities of our conntry in the way of Fruit Cultare and Fruit Manufacturea The idea that fruit cnnnot be grown anywhere in Nova Scotia, except in the Amanjulib valliy, has been long ago exploded, but even in King+ and Amapolis, furmers ure ouly beginning to renlise what may do done. As for Capo lireton, it seems to bo the must prodictive pinu country in the world.

A successpul furmur finds it for his interest that hive neighburs slould also be succersful. A simglo ingtance of well ondered and proluctise fields does not tnake the reputation of an tation beality for profitable agrienitural enterprise. It becomes noted for ferthlity, aad acquires comparative impurtance as a centre of praduction, when the number of gond farmers is in tho majority; whea its yields of gmin or hay or other crops atract, general notice; when huyers learn that such or such a county town will supply the largest quantity and finest quality of butter or cheese, or woul, or apples, or other speciulty ; when those whit tinvel obsurve the general exculience of sonds, the beanty of the shade that overhuys them, the neatuess of the lawns by which they are hordered, the orchurls and gardens that adjoin then, the evident pmepperity of tho community at largo. To what extent the money value of one's land who lives in sach a community, is ellhanced thereby,-not to mention the pleasure and profit of associating with those having similar aims for improvement and gradually securing similar means for attaining it-would he dificult to determuine.
'The perception of the reality and importanes of the:e iacts, thrigh not always expressed, is generally entertained, and, where felt most strong!y, accomplishes unmistakable results It leads to organizations for mutual intercourse and consultution, such as furmers' clubs, dairymens', stock breeders', and fruit growers' astociations; aud, in short, it has developed into one of the great wr tors in setting on foot and pushivg forvard such pregress as our agriculturu manifests now as compared with nifty yanrs ago-a change perhaps even more remarkable than the past half.century has witnessed in any other dircetion.Cuiltizaior.

