Agriculture.

SCIENCE AND FARMING.

In the late article under the head of What has science done for the farm ?" a short history, or rather a very brief sketch, was given of the way in which phosphatic manures came to be introduced into England. Things are not yet arrived at that state in Canadian farming when more than a slight sketch is admissable on these subjects. Matters are progressing, however; crops are failing, assistance to the farmer is demanded, and assistance can only be had though the aid of science.

While the search after phosphates was progressing, until not only the shambles, and ancient deposits of bones, but even the old battle fields, were diligently searched and rifled of their contents, and all ground up and converted into superphosphate, or simple bone-dust; science had shown that there were other souceso of ammonia to be found than the gruan islands. The liquids resulting from the distillations of gas works were found to be specially rich in this substance, and the conversion of these liquids into ammonia, in one shape or another, now forms an immense business throughout the civilized world, wherever gas is used as a means of light.

The immense plains in different parts of the world which yield nitrate of soda, and also the various sources of nitrate of potash, were most industriously laid under contribution. The wa-te of every animal production was equally searched for and husbanded; old cloth and woollen goods gone too far for the shoddy mill; the refuse of the shoddy mill itself; the remains, and refuse of slaughter houses; enormous quantities of the refuse of fish after the extraction of the oil; every nimal substance which by the aid of chemicals could be put into such a state as to be concentrated and conveyed, as an article of merchandise, from one point to another; all are now utilized, and by scientific aid are converted to the use of the British and European farmer. But the mainstay and aid to the manufacturer of chemical manures has been sulphuric acid; this, from its solvent action and powerful affinities, and from its cheapness, is employed on every occasion, and the sulphur which was formerly used chiefly for the manufacture of gunpowder, and the destruction of human life in war, is now the beneficent agent from which the present fertility of England is obtained.

Fifty years ago, sulphuric acid was an expensive chemical agent, useable only for special chemical purposes, and considered cheap at ten times its present price. Now, it is an object of every-day use, not only in the chemical laboratory, but in all manufactories, and on many farms, and the home manufacture of superphosphate is now very common in Britain. Indeed, no modern farm of any pretension is to be found where its use is unknown. It was at one time manipulated by chemists only, and even by them with dread. Now it is used on a large scale by men only one degree above common labourers, and by its potent aid matters are unlocked from stony substances totally inert in their natural state, but which afford the highest possible assistance to the farm when separated and rendered soluble. Formerly the only source of potash was the ashes of burnt wood; now the teldspar which is so plenty in some forms, and indeed in most forms of granite rock, is profitably used to obtain potash manures. Almost all the soda of commerce is obtained by the action of sulphuric acid on common salt, and the latter in its various modifications now enters largely into the formation of chemical manures. Salt and lime mixed together and turned over for three months form the most active substance known for reducing vegetable matters and farm-yard manures into the substance usually known as " rotten dung." These matters, when mixed with lime and salt so prepared, decay in one-fourth of the time they would otherwise take to fall into the most profitable shape as manure; and the action of these chemicals does not cause a loss of ammonia, or other fertilizing salts, to any serious extent.

Science has also pointed out to the farmer the benefits of liquid over solid manure; the necessity of keeping our heaps and reservoirs of manure from the leaching action of the rains; the reasons for the necessity of rotation of crops; and, indeed, it may be fairly claimed for science, that, through its aid, the average production of grain per acre throughout Great Britain has doubled itself within the last menty years - Canada Farmer

MESSENGER ALMANACK.

May, 1870.

| Day Wk. | Rises. | Sets. | Rises | th. 23m th 49m th. 65m 5h. 43m MOON. | Sets. | High Tide |
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THE TIDES .- The column of the Moon's Southing gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport, Windsor, Newport, and

High water at Pictou and Cape Tormentine 2 hours and 30 minutes later than at Hailfax. At Annapolis, St John, N. B., and Porlland Maine, 3 hours and 44 minutes later, and at St. John's, Newfoundland, I hour earlier, than at Halifax.

FOR THE LENGTH OF THE DAY .- Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising.

FOR THE LENGTH OF THE NIGHT -Subtract the time of the sun's setting from 12 hours, and to the remainder add the time of rising next morning

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· Our doctors treated me for Chronic Constipation, as they called it, and at last said I was incurable.

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'Your pills are marvellous.' 'I send for another box, and keep them in the 'Dr. Maggiel has cured my headache that was

'I gave half one of your pills to my babe for cholera morbus. The dear young thing got well in a

' My nausea of a morning is now cured.' 'Your box of Maggiel's Pills cured me of noises in the head. I rubbed some Salve behind my ears and the noise lett.'

'Send me two boxes-I want one for a poor family. 'I enclose a dollar-your price is twenty five cents, but the Medicine to me is worth a dollar.

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May 27.

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