

Liquor and Tobacco Habits

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References as to Dr. McTaggart's professional standing and personal integrity permitted by:
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One of the accepted methods of breeding high class carriage or saddle horses is by the use of the Thoroughbred. In fact the other light breeds of horses rarely prove successful in grading up from the common mares of the country, unless those breeds have Thoroughbred blood close up. Cold blood in a light horse is unpardonable, more especially so if the blood of the stallion used to beget carriage horses is so charged. Size and stamina as well as quality to be possessed by the Thoroughbred of to-day to make him an acceptable horse to use. Mr. Dale of S. Qu'Appelle has recognised the above fact, and has recently added to his stud the following horses, imported from the Southern States, the two stallions "Caleb" and "Brother Bill." They are both beautiful animals, well bred enough to breed to Thoroughbred mares, and large enough to breed carriage, hunter or cavalry horses. In fact, they are very suitable horses for breeding to cold blooded mares for almost any purpose. They are both closely related to many of England and America's most famous horses. "Brother Bill's" dam Mattie T being full sister to "Sir Dixon" premier sire of America in 1902, his grand dam "Jacomet" was full sister to "Iroquois" winner of the Derby and so on for many generations. "Brother Bill" is full brother to "Col. Bill" and Bohemia two high class stature winners in the States.

"Caleb" is half brother to the grand race horse and sire "Flying Dutchman" and a number of other great horses. (the American Flying Dutchman). He is altogether an English bred horse and has the blood of many Derby and St. Ledger winners in his veins, so has "Brother Bill."

CURED HIS WIFE of LA GRIPPE

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"My wife took La Grippe when she was in Ottawa," says R. N. Dufosse of Northfield Farm, Que., in an interview. "She got a bottle of Psychine and after using it for a few days she was quite well. I took a cold and am using it and am getting all right. I think Psychine is one of the best tonics on the market to-day."

There you have the whole matter in a nutshell. La Grippe and colds are among the forerunners of consumption.

This man had one, his wife had the other. Psychine not only cured both but it built them up so that their bodies are strong enough to resist disease. All seeds of consumption are killed by

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THE WITCHERY OF MODERN AGRICULTURAL SCIENCE AND PRACTICE.

I believe the subject on which I am to say a few words to-night will differ greatly from the subjects chosen by the other members of this club. I am a farmer, or at the least I am engaged in agricultural work, and when once a man with farming blood in his veins has "seen the sage bush on the plains, and smelt the flowers that make the prairie fair" it's pretty hard to tie him down to any other subject, and so I make this my excuse to-night for telling you something of what has been accomplished during the past few years in agricultural work.

I do not intend to speak of improvements which are purely mechanical. You know all about the change from the cradle to the binder, and the evolution of the plow from the crooked stick to the nine-gang westerner drawn by a thirty horse power engine, is an old familiar story. But this is not the only way in which the farmers have been moving forward. We have learned how to control certain forces of nature; to range ourselves along side of natural laws and profit by them. You all know that for successful plant growth we must have these three essentials: nitrogen, phosphoric acid, and potash. Now nitrogen is the most expensive of the three. It will cost you in the commercial forms in which you must procure it about twenty cents per pound, yet the air about us is 80 per cent nitrogen, in fact, there are about 75,000,000 pounds of this free nitrogen resting above every acre of ground. What could be more natural than that we should try to avail ourselves of this supply. The idea was excellent but how was it to be done? Simply by this means: A family of plants known as the Legumes or Clover family agreed to undertake the work for us. By means of the bacteria on their roots these plants take the nitrogen from the air and build it up in available form for the plants. So you see all we have to do is inoculate the seed or the soil and nature does the rest. One acre of clover will in this manner add about fifty pounds of nitrogen to the soil in a year and yet it is quite possible in many soils that the clover could not be grown at all without soil inoculation. These bacteria can be introduced by using soil from a field in which clover has been grown or "bacteria cake" can be procured from the government and the farmer can then prepare his own culture.

It's all very easy, but it shows that the farmer besides being a farmer must be a bacteriologist, and you all know that he should be a biologist, a veterinary surgeon, a chemist, a first class mechanic, an expert machinist and a good citizen.

I intended to tell you something of the conquest of arid America, how man has been able to conquer the dry places by irrigation, how, where irrigation was not practised he has introduced dry farming, how black alkali has been changed to white and white washed out by water or overcome by using crops tolerant of alkali and adopting methods of cultivation that do not tend to bring the alkali to the surface. I simply mention these things and possibly you may study them some day when you all become farmers as I feel sure you will.

There is only one more question to which I wish to refer. This is the question of plant breeding. Man is a creature of environment, but not altogether. We are able to change our surroundings. We are not living in a fruit growing country at present but some day this will all be changed and it's pretty hard to put a limit to our possibilities along this line. We recognize the fact that in plant life "heredity is the sum of all past environments"; we realize that the present position of the plant world is the result of evolution, and with science to back us we feel sure that in the evolution of the future, plants can be changed to suit the needs of man. Let me illustrate: The original sugar-beet was a coarse plant with only three or four per cent of sugar; to-day we have beets that are nearly one-fourth sugar. We simply analyze a number; select for mother beets in the growing of seed one that contains the most sugar and

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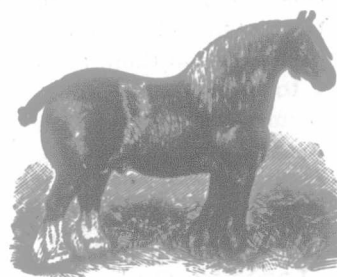
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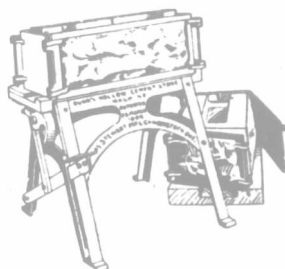
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