

tion to curing cheese on the shelf, the Englishman, with less skill than ourselves in cheese manufacture, is enabled to make a superior product. I am convinced that unless the dairymen of America commence at once to pay attention to cleanliness in pastures, not only in regard to slough-holes, but the eradication of weeds, providing stock with an abundance of fresh, clean water, together with attention to curing cheese, European manufacturers will soon outstrip us in the race "for making fine goods." The factory system is now being established in Europe. All our inventions and appliances are eagerly sought after and every good thing discovered by us adopted. England, Sweden, Germany, Russia, Holland and Switzerland are adopting our factory system. Under monarchical governments and hereditary land-tenures like those of Europe, the farmer is compelled by his landlord to farm in certain directions, and the result is a systematic regular course of husbandry by which better results are obtained than with us, where every farmer does his work in a hap-hazard way without any regard to science, or a rational system of culture. Dead carcasses exposed to the air to putrefy, cess-pools reeking with filth, stagnant water filled with decomposing vegetable matters are regarded as public nuisances, and those permitting them on their premises are liable to criminal prosecution.

Now in regard to milk, we are no longer left to grope along blindly in the dark. Hallier, Pasteur, and a host of other distinguished investigators have, with the aid of the microscope, demonstrated how milk is changed from its normal condition by fungi—how these minute organisms emanating from filthy matter get possession of the milk, and convert it into a state similar to that substance from which they emanate; and it is from this standpoint, established as a truth by scientists, that American dairymen must base their operations. The trouble heretofore has been that we had no sufficiently established starting point. We were experimenting with the *effect*, without understanding definitely the nature of the *cause*.

But now, clearly understanding the cause and its effects, we can apply the remedy. I have no doubt the terrible disease known

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