ADVANTAGES OF SCIENTIFIC FARMING.

· When land covered with an old growth of wood is first cleared, the soil is always in a state that will produce good crops for a number. of years without manure; but after the lapse of a sufficient time to rot the stumps, it begins of a sufficient time to rot the stumps, it begins gone to work in carnest to improve their worn to fail. It is then generally ploughed and out land, with such success that they have worked without much manure till it no longer changed the crop of Indian Corn from fifteen paye for the labour, when it is allowed to fifty bushels an acre, and that of hay from become a pasture, and another piece of wood less than a ton to two and a half and three land is cut down and cultivated in the same tons, and have found in many instances that, WAV.

These pastures, on what was originally not the best kind of land, will grow poorer for fifty years; the best kinds of grass disappearing one after the other till nothing is left but poverty grass," or "animated out" as it is sometimes called. This coon follows the others, and there being now very little that cattle will eat, the ground is occupied by mountain tea, mayflower, and other wild plants, soon followed by dwarf laurel and creeping jumper. The ground now begins slowly to improve, having a covering of vegetables to protect it from sun and wind, and a strong turi which defends it the earth by rains. It will now, if neglected, upon clay, and clay improves a soil that is too become again covered with wood, and finally sandy. Considerable portions of the Earth again become fertile. again become fertile.

This impoverishing mode of farming upon new land is not peculiar to Nova Scotia. It has been generally practised in the American States, and many there who had farms from which they procured a comfortable living, have worn them out and removed to the far West to begin again upon new land. It is not two centuries since a very large proportion of the land in Europe was in this worn out state, but lines the skill of the scientific farmer has been applied to Its cultivation, much that was nearly worthless has been made very productive, and now supports three or four times as many people as it did a hundred years are.

*An English gentleman, formerly travelling through a very barren part of Germany, where very little cultivation was to be seen, but only taige plains covered with heath, was surprised by discovering a very rich farm covered with excellent crops of various kinds in the midst of the barren. He found that it was owned by an old Austrian soldier, who having per-formed some extraordinary service, had been rewarded by the government with a tract of this barren heath, upon which a house had been built for him. He had served a long timesin Flanders among a people who were skilful farmers, and had paid particular attention to the way in which they managed their fand, which had convinced him that the same kend of cultivation that he had seen so suc-cessful on the poor sand of the low countries, would answer as well in Germany. He had therefore requested the government to give him this land to try his skill upon. He had chosen a place not far from a town which would serve as a market for his produce, and which was so driv that he knew it would supply him with manure. He commenced with a small piece which he broke up very deep, and manured highly, and found it produced a very great crop. He continued breaking up and cultivating according to the Flemish mode, and had at that time sixty acres in the probability of the first of cultivations and the first of the continued as the continued of the first of the cultivations and the continued of the cultivations are continued on the cultivation and the cultivation are continued on the cultivation of the cultivation and the cultivation of the cultivation

change. A better education has been given to the people, and agricultural science has more than doubled it a produce of the land.

For a considerable time men of abilities in the American States have perceived the folly of their exhausting mode of farming, and have to fifty bushels an acre, and that of hay from notwithstanding the additional expense, the very great crop was much more profitable than the small one, even in the first season, while the good effect of the extra quantity of manure continued for several of the following seasons. They have generally found it most profitable to work no more land than they can teep very rich, and for this reason exert themselves to collect and preserve as much manure The urine of the cattle and the as possible wash of the kitchen are preserved by turning them upon sods or swamp mud which imbibe them.

limestone. In this district, which is often very stony, swamps are found to be the most valuable land for grass. They are drained, have an irch or two of upland soil spread over them, followed by a dressing of manure, and and then sowed with oats and grass seeds. Clover stands the winter very well upon drained swamps. They should ever have the turf burnt, for the effect of burning would be, to give two or three heavy crops, and then leave the land in such a barren state that it will be nearly worthless.

Sea sand that has a mixture of mud and shells is very useful on drained swamps.

four inches deep with a gravelly soil, of which one-third at least was small pebbles, having been dug three feet below the surface in making a cellar It was moderately manured with rotted dung and sowed with Timothy, of which

than those that have a great depth of peat or swamp mud.

It is generally necessary to make a small ditch adjoining the upland entirely round the swamp, which should be cut a few inches into the solid ground to catch the springs that come from the hills. Earth is best carted upon a drained swamp when it is frozer, if it has been previously thrown into large heaps, and covered with spruce boughs.

Clover and upland grasses may be easily introduced into a drained swamp without breaking it up, simply by giving it a top dressing of manure; but, if it is broken up, the grass is exposed to be thrown out by the frost, unless

peat, and a layer of it below the surface would always yield a passage to the superfluous water. In the middle of the garden at the North Barracke there was a piece of ground which, though well manured, would never produce a tolerable crop; upon examining it, it was found to have under it, at the depth of about ten inches, a bed of hard red clay which water could not pass through. Mr. Dalton, the gardener, brought in twenty-five loads of peat from the swamp, back of the Citadel hill, and had the ground trench-dug fifteen unches deep, putting five inches of peat at the bottom. This ground has since been as good as any part of the garden.

Small stones should never be very carefully taken off clayey ground, In England, people who had hired children to pick all the small flint stones off their land, have since been glad to cart them back, and spread them again. Almost any soil will, by manuring, for a long time, become clayey, for both stable manure and swamp mud will slowly change slate to clay, and blue whinstone to white sand and clay.

When swamp soil is used to mix with manure, it should be remembered that there is a great difference in swamps. Those which are shallow and in situations where the water States resemble the Southern front of Nova from the hardwood hills has brought leaves Scotia, the soil, like ours, resting upon what upon them, have a more fertile soil than the is called "primitive rock," and, of course, deep peat bogs formed wholly from the remains inferior to that which lies upon sandstone and of the trees and plants of the most barren kind of land. The peat of the barren is best for suel, but of little use upon the land farther han serving to make it more loose and open.

> The peat from the barren swamp is, however, the best to plough indeep for the purpose of draining the land, because it does not quickly change to mould.

It is often the case that the inhabitants of a rough rocky region like the scuthern front of Nova Scotia, when they hear of lands where great crops are raised for a long time without manure—where the ground is level, mellow, and free from stones—and where there is little shells is very useful on drained swamps.

Gravel, containing many small stones, seems to answer better on some swamps than a finer their children where they would not be consoil. I have seen a small piece covered about pelled to work as hard for their living as they have done themselves. Such wishes are very natural, we all carry about a spirit of discon-tent, and an aspiration after something better. and are as unwilling to see that the cause of our discontent is in ourselves, as we are to it gave a large rop fer five or ex, years before look steadily at the sun: we therefore ascribe, it required manure again.

Shallow swamps are better for draining who we wish we had, and not a few believe that all that is necessary to make them happy. would be found by removing to some other region, which appears a second Eden to their fancy, yet if they try this expedient they always fare like the man who removed from always late use the man who removed from a haunted house, who as he stood by the truck that was taking the last load, was addressed by a neighbour, who said, "So you are leaving us." "Yes," replied the Devil, popping his head out of the bung-hole of an empty cask, "We are all a-going." But, unfortunately, the region where discontent will not follow us has not yet been discovered.

Near the seabord of the Eastern States the duced a very great crop. He continued breaking up and cultivating according to the Flemish manure; but, if it is broken up, the grass is exposed to be thrown out by the frost, unless so cold that the com is often injured by the great state of cultivator; all fenced in ten spread over it.

Upon clayey hills such as are found at rich man, and owed his wealth to the knowledge he had acquired in Flanders, without the crops fail in wet seasons for want ofdrains, but the ground has allowed him.

Scotland was from time immemorial according to the flower the crop that it is nearly drowned basket of eggs or butter, till she goes to the counted one of the poorest of countries, but in deep, by going twice through every furrow. It is not the least wealth to the knowledge he had acquired in Flanders, without the crops fail in wet seasons for want ofdrains, ple are more miserable and oppressed. A which he would have lived poorly upon the small pension that was allowed him.

Scotland was from time immemorial according to the flower time the control of the poorly upon the crops fail in wet seasons for want ofdrains, ple are more miserable and oppressed. A which he would have lived poorly upon the crops fail in wet seasons for want ofdrains, ple are more miserable and oppressed. A which he would have lived poorly upon the crops fail in wet seasons for want ofdrains, ple are more miserable and oppressed. A which he would have lived poorly upon the crops fail in wet seasons for want ofdrains, ple are more miserable and oppressed. A which he would have lived poorly upon the crops fail in wet seasons for want of drains, ple are more miserable and oppressed. A which he would have lived poorly upon the crops fail in wet seasons for want of drains, ple are more miserable and oppressed. A which he would have lived poorly upon the crops fail in wet seasons for want of drains, ple are more miserable and oppressed. A which he would have lived poorly upon the first provide the crops fail in the poorly upon the found in the ground that the