

## Chapter VI. Farming

To these men  
The landscape is an armory of powers,  
Which, one by one, they know to draw and use.  
They harness beast, bird, insect, to their work;  
They prove the virtues of each bed of rock,  
And, like the chemist mid his loaded jars,  
Draw from each stratum its adapted use  
To drug their crops or weapon their arts withal.  
They turn the frost upon their chemic heap,  
They set the wind to winnow pulse and grain,  
They thank the spring-flood for its fertile slime,  
And on cheap summit-levels of the snow  
Slide with the sledge to inaccessible woods  
O'er meadows bottomless. So, year by year,  
They fight the elements with elements,  
And by the order in the field disclose  
The order regnant in the yeoman's brain.  
What these strong masters wrote at large in miles,  
I followed in small copy in my acre;  
For there 's no rood has not a star above it;  
The cordial quality of pear or plum  
Ascends as gladly in a single tree  
As in broad orchards resonant with bees;  
And every atom poises for itself,  
And for the whole.  
He planted where the deluge ploughed,  
His hired hands were wind and cloud;  
His eyes detect the Gods concealed  
In the hummock of the field.

The glory of the farmer is that, in the division of labors, it is his part to create. All trade rests at last on his primitive activity. He stands close to Nature; he obtains from the earth the bread and the meat. The food which was not, he causes to be. The first farmer was the first man, and all historic nobility rests on possession and use of land. Men do not like hard work, but every man has an exceptional respect for tillage, and a feeling that this is the original calling of his race, that he himself is only excused from it by some circumstance which made him delegate it for a time to other hands. If he have not some skill which recommends him to the farmer, some product for which the farmer will give him corn, he must himself return into his due place among the planters. And the profession has in all eyes its ancient charm, as standing nearest to God, the first cause.

Then the beauty of Nature, the tranquillity and innocence of the countryman, his independence and his pleasing arts,—the care of bees, of poultry, of sheep, of cows, the dairy, the care of hay, of fruits, of

orchards and forests, and the reaction of these on the workman, in giving him a strength and plain dignity like the face and manners of Nature,—all men acknowledge. All men keep the farm in reserve as an asylum where, in case of mischance, to hide their poverty,—or a solitude, if they do not succeed in society. And who knows how many glances of remorse are turned this way from the bankrupts of trade, from mortified pleaders in courts and senates, or from the victims of idleness and pleasure? Poisoned by town life and town vices, the sufferer resolves: ‘Well, my children, whom I have injured, shall go back to the land, to be recruited and cured by that which should have been my nursery, and now shall be their hospital.’

The farmer’s office is precise and important, but you must not try to paint him in rose-color; you cannot make pretty compliments to fate and gravitation, whose minister he is. He represents the necessities. It is the beauty of the great economy of the world that makes his comeliness. He bends to the order of the seasons, the weather, the soils and crops, as the sails of a ship bend to the wind. He represents continuous hard labor, year in, year out, and small gains. He is a slow person, timed to Nature, and not to city watches. He takes the pace of seasons, plants and chemistry. Nature never hurries: atom by atom, little by little, she achieves her work. The lesson one learns in fishing, yachting, hunting or planting is the manners of Nature; patience with the delays of wind and sun, delays of the seasons, bad weather, excess or lack of water,—patience with the slowness of our feet, with the parsimony of our strength, with the largeness of sea and land we must traverse, etc. The farmer times himself to Nature, and acquires that livelong patience which belongs to her. Slow, narrow man, his rule is that the earth shall feed and clothe him; and he must wait for his crop to grow. His entertainments, his liberties and his spending must be on a farmer’s scale, and not on a merchant’s. It were as false for farmers to use a wholesale and massy expense, as for states to use a minute economy. But if thus pinched on one side, he has compensatory advantages. He is permanent, clings to his land as the rocks do. In the town where I live, farms remain in the same families for seven and eight generations; and most of the first settlers (in 1635), should they reappear on the farms to-day, would find their own blood and names still in possession. And the like fact holds in the surrounding towns.

This hard work will always be done by one kind of man; not by scheming speculators, nor by soldiers, nor professors, nor readers of Tennyson; but by men of endurance—deep-chested, long-winded, tough, slow and sure, and timely. The farmer has a great health, and the appetite of health, and means to his end; he has broad lands for his home, wood to burn great fires, plenty of plain food; his milk at least is unwatered; and for sleep, he has cheaper and better and more of it than citizens.

He has grave trusts confided to him. In the great household of Nature, the farmer stands at the door of the bread-room, and weighs to each his loaf. It is for him to say whether men shall marry or not. Early marriages and the number of births are indissolubly connected with abundance of food; or, as Burke said, “Man breeds at the mouth.” Then he is the Board of Quarantine. The farmer is a hoarded capital of health, as the farm is the capital of wealth; and it is from him that the health and power, moral and intellectual, of the cities came. The city is always recruited from the country. The men in cities who are the centres of energy, the driving-wheels of trade, politics or practical arts, and the women of beauty and genius, are the children or grandchildren of farmers, and are spending the energies which their fathers’ hardy, silent life accumulated in frosty furrows, in poverty, necessity and darkness.

He is the continuous benefactor. He who digs a well, constructs a stone fountain, plants a grove of trees by the roadside, plants an orchard, builds a durable house, reclaims a swamp, or so much as puts a stone seat by the wayside, makes the land so far lovely and desirable, makes a fortune which he cannot carry away with him, but which is useful to his country long afterwards. The man that works at

home helps society at large with somewhat more of certainty than he who devotes himself to charities. If it be true that, not by votes of political parties but by the eternal laws of political economy, slaves are driven out of a slave state as fast as it is surrounded by free states, then the true abolitionist is the farmer, who, heedless of laws and constitutions, stands all day in the field, investing his labor in the land, and making a product with which no forced labor can compete.

We commonly say that the rich man can speak the truth, can afford honesty, can afford independence of opinion and action;—and that is the theory of nobility. But it is the rich man in a true sense, that is to say, not the man of large income and large expenditure, but solely the man whose outlay is less than his income and is steadily kept so.

In English factories, the boy that watches the loom, to tie the thread when the wheel stops to indicate that a thread is broken, is called a minder. And in this great factory of our Copernican globe, shifting its slides, rotating its constellations, times and tides, bringing now the day of planting, then of watering, then of weeding, then of reaping, then of curing and storing,—the farmer is the minder. His machine is of colossal proportions; the diameter of the water-wheel, the arms of the levers, the power of the battery, are out of all mechanic measure; and it takes him long to understand its parts and its working. This pump never “sucks;” these screws are never loose; this machine is never out of gear; the vat and piston, wheels and tires, never wear out, but are self-repairing.

Who are the farmer’s servants? Not the Irish, nor the coolies, but Geology and Chemistry, the quarry of the air, the water of the brook, the lightning of the cloud, the castings of the worm, the plough of the frost. Long before he was born, the sun of ages decomposed the rocks, mellowed his land, soaked it with light and heat, covered it with vegetable film, then with forests, and accumulated the sphagnum whose decays made the peat of his meadow.

Science has shown the great circles in which Nature works; the manner in which marine plants balance the marine animals, as the land plants supply the oxygen which the animals consume, and the animals the carbon which the plants absorb. These activities are incessant. Nature works on a method of all for each and each for all. The strain that is made on one point bears on every arch and foundation of the structure. There is a perfect solidarity. You cannot detach an atom from its holdings, or strip off from it the electricity, gravitation, chemic affinity or the relation to light and heat and leave the atom bare. No, it brings with it its universal ties.

Nature, like a cautious testator, ties up her estate so as not to bestow it all on one generation, but has a forelooking tenderness and equal regard to the next and the next, and the fourth and the fortieth age. There lie the inexhaustible magazines. The eternal rocks, as we call them, have held their oxygen or lime undiminished, entire, as it was. No particle of oxygen can rust or wear, but has the same energy as on the first morning. The good rocks, those patient waiters, say to him: ‘We have the sacred power as we received it. We have not failed of our trust, and now—when in our immense day the hour is at last struck—take the gas we have hoarded, mingle it with water, and let it be free to grow in plants and animals and obey the thought of man.’

The earth works for him; the earth is a machine which yields almost gratuitous service to every application of intellect. Every plant is a manufacturer of soil. In the stomach of the plant development begins. The tree can draw on the whole air, the whole earth, on all the rolling main. The plant is all suction-pipe,—imbibing from the ground by its root, from the air by its leaves, with all its might.

The air works for him. The atmosphere, a sharp solvent, drinks the essence and spirit of every solid on the globe,—a menstruum which melts the mountains into it. Air is matter subdued by heat. As the sea is the grand receptacle of all rivers, so the air is the receptacle from which all things spring, and into which they all return. The invisible and creeping air takes form and solid mass. Our senses are skeptics, and believe only the impression of the moment, and do not believe the chemical fact that these huge mountain chains are made up of gases and rolling wind. But Nature is as subtle as she is strong. She turns her capital day by day; deals never with dead, but ever with quick subjects. All things are flowing, even those that seem immovable. The adamant is always passing into smoke. The plants imbibe the materials which they want from the air and the ground. They burn, that is, exhale and decompose their own bodies into the air and earth again. The animal burns, or undergoes the like perpetual consumption. The earth burns, the mountains burn and decompose, slower, but incessantly. It is almost inevitable to push the generalization up into higher parts of Nature, rank over rank into sentient beings. Nations burn with internal fire of thought and affection, which wastes while it works. We shall find finer combustion and finer fuel. Intellect is a fire: rash and pitiless it melts this wonderful bone-house which is called man. Genius even, as it is the greatest good, is the greatest harm. Whilst all thus burns,—the universe in a blaze kindled from the torch of the sun,—it needs a perpetual tempering, a phlegm, a sleep, atmospheres of azote, deluges of water, to check the fury of the conflagration; a hoarding to check the spending, a centripetence equal to the centrifugence; and this is invariably supplied.

The railroad dirt-cars are good excavators, but there is no porter like Gravitation, who will bring down any weights which man cannot carry, and if he wants aid, knows where to find his fellow laborers. Water works in masses, and sets its irresistible shoulder to your mills or your ships, or transports vast boulders of rock in its iceberg a thousand miles. But its far greater power depends on its talent of becoming little, and entering the smallest holes and pores. By this agency, carrying in solution elements needful to every plant, the vegetable world exists.

But as I said, we must not paint the farmer in rose-color. Whilst these grand energies have wrought for him and made his task possible, he is habitually engaged in small economies, and is taught the power that lurks in petty things. Great is the force of a few simple arrangements; for instance, the powers of a fence. On the prairie you wander a hundred miles and hardly find a stick or a stone. At rare intervals a thin oak-opening has been spared, and every such section has been long occupied. But the farmer manages to procure wood from far, puts up a rail-fence, and at once the seeds sprout and the oaks rise. It was only browsing and fire which had kept them down. Plant fruit-trees by the roadside, and their fruit will never be allowed to ripen. Draw a pine fence about them, and for fifty years they mature for the owner their delicate fruit. There is a great deal of enchantment in a chestnut rail or picketed pine boards.

Nature suggests every economical expedient somewhere on a great scale. Set out a pine-tree, and it dies in the first year, or lives a poor spindle. But Nature drops a pine-cone in Mariposa, and it lives fifteen centuries, grows three or four hundred feet high, and thirty in diameter,—grows in a grove of giants, like a colonnade of Thebes. Ask the tree how it was done. It did not grow on a ridge, but in a basin, where it found deep soil, cold enough and dry enough for the pine; defended itself from the sun by growing in groves, and from the wind by the walls of the mountain. The roots that shot deepest, and the stems of happiest exposure, drew the nourishment from the rest, until the less thrifty perished and manured the soil for the stronger, and the mammoth Sequoias rose to their enormous proportions. The traveller who saw them remembered his orchard at home, where every year, in the destroying wind, his forlorn trees pined like suffering virtue. In September, when the pears hang heaviest and are taking

from the sun their gay colors, comes usually a gusty day which shakes the whole garden and throws down the heaviest fruit in bruised heaps. The planter took the hint of the Sequoias, built a high wall, or—better—surrounded the orchard with a nursery of birches and evergreens. Thus he had the mountain basin in miniature; and his pears grew to the size of melons, and the vines beneath them ran an eighth of a mile. But this shelter creates a new climate. The wall that keeps off the strong wind keeps off the cold wind. The high wall reflecting the heat back on the soil gives that acre a quadruple share of sunshine,—

“Enclosing in the garden square  
A dead and standing pool of air,”

and makes a little Cuba within it, whilst all without is Labrador.

The chemist comes to his aid every year by following out some new hint drawn from Nature, and now affirms that this dreary space occupied by the farmer is needless; he will concentrate his kitchen-garden into a box of one or two rods square, will take the roots into his laboratory; the vines and stalks and stems may go sprawling about in the fields outside, he will attend to the roots in his tub, gorge them with food that is good for them. The smaller his garden, the better he can feed it, and the larger the crop. As he nursed his Thanksgiving turkeys on bread and milk, so he will pamper his peaches and grapes on the viands they like best. If they have an appetite for potash, or salt, or iron, or ground bones, or even now and then for a dead hog, he will indulge them. They keep the secret well, and never tell on your table whence they drew their sunset complexion or their delicate flavors.

See what the farmer accomplishes by a cart-load of tiles: he alters the climate by letting off water which kept the land cold through constant evaporation, and allows the warm rain to bring down into the roots the temperature of the air and of the surface soil; and he deepens the soil, since the discharge of this standing water allows the roots of his plants to penetrate below the surface to the subsoil, and accelerates the ripening of the crop. The town of Concord is one of the oldest towns in this country, far on now in its third century. The selectmen have once in every five years perambulated the boundaries, and yet, in this very year, a large quantity of land has been discovered and added to the town without a murmur of complaint from any quarter. By drainage we went down to a subsoil we did not know, and have found there is a Concord under old Concord, which we are now getting the best crops from; a Middlesex under Middlesex; and, in fine, that Massachusetts has a basement story more valuable and that promises to pay a better rent than all the superstructure. But these tiles have acquired by association a new interest. These tiles are political economists, confuters of Malthus and Ricardo; they are so many Young Americans announcing a better era,—more bread. They drain the land, make it sweet and friable; have made English Chat Moss a garden, and will now do as much for the Dismal Swamp. But beyond this benefit they are the text of better opinions and better auguries for mankind.

There has been a nightmare bred in England of indigestion and spleen among landlords and loom-lords, namely, the dogma that men breed too fast for the powers of the soil; that men multiply in a geometrical ratio, whilst corn multiplies only in an arithmetical; and hence that, the more prosperous we are, the faster we approach these frightful limits: nay, the plight of every new generation is worse than of the foregoing, because the first comers take up the best lands; the next, the second best; and each succeeding wave of population is driven to poorer, so that the land is ever yielding less returns to

enlarging hosts of eaters. Henry Carey of Philadelphia replied: “Not so, Mr. Malthus, but just the opposite of so is the fact.”

The first planter, the savage, without helpers, without tools, looking chiefly to safety from his enemy,—man or beast,—takes poor land. The better lands are loaded with timber, which he cannot clear; they need drainage, which he cannot attempt. He cannot plough, or fell trees, or drain the rich swamp. He is a poor creature; he scratches with a sharp stick, lives in a cave or a hutch, has no road but the trail of the moose or bear; he lives on their flesh when he can kill one, on roots and fruits when he cannot. He falls, and is lame; he coughs, he has a stitch in his side, he has a fever and chills; when he is hungry, he cannot always kill and eat a bear,—chances of war,—sometimes the bear eats him. 'T is long before he digs or plants at all, and then only a patch. Later he learns that his planting is better than hunting; that the earth works faster for him than he can work for himself,—works for him when he is asleep, when it rains, when heat overcomes him. The sun-stroke which knocks him down brings his corn up. As his family thrive, and other planters come up around him, he begins to fell trees and clear good land; and when, by and by, there is more skill, and tools and roads, the new generations are strong enough to open the lowlands, where the wash of mountains has accumulated the best soil, which yield a hundred-fold the former crops. The last lands are the best lands. It needs science and great numbers to cultivate the best lands, and in the best manner. Thus true political economy is not mean, but liberal, and on the pattern of the sun and sky. Population increases in the ratio of morality; credit exists in the ratio of morality.

Meantime we cannot enumerate the incidents and agents of the farm without reverting to their influence on the farmer. He carries out this cumulative preparation of means to their last effect. This crust of soil which ages have refined he refines again for the feeding of a civil and instructed people. The great elements with which he deals cannot leave him unaffected, or unconscious of his ministry; but their influence somewhat resembles that which the same Nature has on the child,—of subduing and silencing him. We see the farmer with pleasure and respect when we think what powers and utilities are so meekly worn. He knows every secret of labor; he changes the face of the landscape. Put him on a new planet and he would know where to begin; yet there is no arrogance in his bearing, but a perfect gentleness. The farmer stands well on the world. Plain in manners as in dress, he would not shine in palaces; he is absolutely unknown and inadmissible therein; living or dying, he never shall be heard of in them; yet the drawing-room heroes put down beside him would shrivel in his presence; he solid and unexpressive, they expressed to gold-leaf. But he stands well on the world,—as Adam did, as an Indian does, as Homer's heroes, Agamemnon or Achilles, do. He is a person whom a poet of any clime—Milton, Firdusi, or Cervantes—would appreciate as being really a piece of the old Nature, comparable to sun and moon, rainbow and flood; because he is, as all natural persons are, representative of Nature as much as these.

That uncorrupted behavior which we admire in animals and in young children belongs to him, to the hunter, the sailor,—the man who lives in the presence of Nature. Cities force growth and make men talkative and entertaining, but they make them artificial. What possesses interest for us is the nature of each, his constitutional excellence. This is forever a surprise, engaging and lovely; we cannot be satiated with knowing it, and about it; and it is this which the conversation with Nature cherishes and guards.