# The Farm and Fireside.

## Education of Farmers.

A crochety farmer in the *Mark Lane Express*, demurs to the technical school education of the farmers. He says: "I have never yet seen a method proposed by which the technical education of a farmer is to be imparted to the rising generation of the rural districts." And he contends that such learning can be of no practical benefits to the farmer, as he would soon forget the general principles of science. I would ask why the farmer, whose great calling is to aid Nature to bring forth from the earth those vegetable productions so indispensible to all animal life, should be exempt from the necessity of studying Nature's laws; so, far, at least, as to acquire a theoretical knowledge of so much chemistry and geology as relates to agriculture, for without this knowledge the farmer is a mere "hewer of wood and drawer of water," in Nature's great laboratery, the farm, with nothing intellectual to lighten his daily toil, or turn it into a pastime of scientific experiment, the success of which is certain if made in strict accordance with Nature's laws.

I had a letter from a farmer the other day, who says he does not believe that the leaves of deciduous trees are any better than straw for manure, and that he had rather have one pound of horse-dung than three pounds of leaves for manure. Here is a case in point, to show how much a farmer may lose for the want of a very little knowledge of the chemistry of manures and their action in promoting vegetable growth. Straw is nearly all carbon, with a little soluble silex and still less of other fertillizers: while deciduous leaves contain fourteen per cent. of choice mineral matter, besides being very rich in nitrogen. Horse dung contains the same elements as the leaves, but in no greater force; yet, owing to its more immediate solubity, its action on vegetable growth is quicker; and this is why the farmer gives it the preference. If the leaves were composted with the dung, their decomposition into soluble plant-food would be hastened, and a large addition of clay or common soil would increase the pile, converting the whole into one homogeneous mass of fertilizing material—the equivalent of the best farm-yard manure. Many farmers have not yet learned that crude, unfermented manure, cannot be assimilated by plants until it is dissolved by rain water into soluble plant-food. Hence, we often hear them condemn the richest and most permanent manures. K.

## Pruning Shrubs.

We recently met with a lady florist who had an oleander plant about three feet high, which had grown from a sprout on the side of the main stem, a few inches above the soil in the pot. The old stem had been hacked off, two or three years previous, about two inches above the point where the new and present stem had started; and this old stub had died down to the roots, except a narrow strip of bark and sap wood below the present stem. When the old top was removed, if it had been cut off smoothly, close to the branch that was to form the present top, and the cut had been covered with a plaster of grafting-wax, the wound would have healed, and no part of the stem would have lost its vitality. Her beautiful oleander was injured beyond recovery, by bad pruning.

When shrubs or their branches are cut back, the gash should be made not square across, but slanting upwards at an angle of about forty-five degrees; after which, to prevent the wood from dying and losing its vitality, the wound should be covered with some sort of wax.

Such a shrub as we have alluded to, may be saved by turning it, with its contents, into a larger and deeper pot, in the former part of the growing season: after which, the large pot should be filled with sand, leaf-mould and ashes, to a point one inch above the injured bark and dry wood. Then, by scraping off the epidermis or dead bark just below the surface of the soil, a new system of roots will be sent out, and the old stub will soon decay, leaving a sound and healthy stem. Any young tree or bush may be managed in the same manner, if the stem near the root is at all defective.

## Useful Receipts.

—Salt sprinkled upon the carpet before sweeping will make it look bright and clean. This is also a good preventitive against moth.

—Leaky tin or iron ware is easily and quickly mended by hammering a small nail or tack of soft lead, fit the hole, cut off each end, and rivet it down. Rivets of soft lead or other material may be used to mend iron kettles, etc.

—A paper down in Maine insists that the statement that butter can be made by burying the cream under ground, inclosed in cloths, for twenty-four hours, is not a joke, as the experiment has been tried in Belfast with complete success.

—No better plan has every been devised to keep butter sweet than to put it in clean jars and cover it with strong brine. No kind of vessel, cask or tub will answer as well as the jar. In this way it can be kept fresh and sweet for twelve months.

—Horse-radish sauce is made thus: Grate the horse-radish and boil it in milk, and flour and butter, mixed, and some pepper and salt and the white of an egg. Let it boil up for a few minutes.

—Boil one pound of powdered sulphur in two quarts of water for half an hour. Apply with a brush while warm, and you will prevent the damp and unwholesome oozings from brick walls.

—Old feather beds and pillows are greatly improved by putting them on a clean grass-plot during a heavy shower. Let the beds be thoroughly wetted; turn them on both sides; let them lie out until thoroughly dry; then beat with rods; this will lighten the feathers and make them much more healthy to sleep on. It removes dust and rejuvenates the feathers.

—A friend states that the best thirst-quenching drink he found during the unusually hot summer was strong cold black tea, to which lemon-juice and sugar were added in quantities to suit the taste. We have often used cold or iced tea, and found it an exceedingly grateful summer beverage.

—It is of no advantage to have lively mind if we are notjust. The perfection of the pendulum is not to go fast, but to be regular.

—Don't cram the child at school; it is bad for the brain; nor at the table—it is bad for the stomach; both bring doctor's visits.

## ODDS AND ENDS.

—The avaricious man is like the barren, sandy ground of the desert, which sucks in all the rain and dews with greediness, but yields no fruitful herbs or plants for the benefit of others.

—Over a bridge in one of the country towns of England, is the following accurate notice:—"No one vehicle drawn by more than one animal is allowed to cross this bridge in opposite directions at the same time."

—The *Tribune*, in an editorial on Agassiz, quotes the story of a shrewd agent, who tried vainly to buy the great naturalist for a winter's lectures. "Why, sir, you will make more money than by ten years of this work," he reasoned. "But I have not the time to make money," said Agassiz.—In this short sentence is expressed the whole of that great sermon which Americans most need.

—Prince Alexis received a present from the Laclede rolling mills at St. Louis, of a rosewood box, containing specimens of Iron mountain iron. It contained also specimens of highly finished iron, including a book of sheet-iron, magnificently bound in Turkey morocco and gilt. The sheets were as thin as tissue paper, requiring 480. to make one inch in thickness, but were very tough and strong, as smooth as writing paper.

—In a shop in Pittsfield, Massachusetts, there rests on its block an anvil that has done duty for more than three hundred years. It is as sound to-day as it was in 1633, when Elitweed Pomeroy, after welding for the Stuarts the ponderous horse-shoes of the same style and pattern that his ancestors had made during many generations for the Tudoes and Plantagenets, grew weary of taxes without law, and work without wages, and taking his anvil, sailed for the New World. A deft workman, he throve in the settlements, and left his anvil as an heir-loom to his decendants.

—President Smith, of Dartmouth, used to set type in the printing office of Simeon Ide, at Windsor, and says of it: "It always seemed to me that it was a profitable service. I learned to spell, an attainment which even men of great notority do not always make. I learned many things about the newspapers and books, and the matters they treat of, which served as a good preparation for the further studies I at length undertook. I am far from being satisfied with my labors in the present position; but imperfect as they seem to me, I cannot but help thinking that I am a little better president for having been a printer."

—At an indignation meeting in Boston, last week, called to consider the want of facilities for travel afforded by the city railroad company—packing of the cars, &c.—Gen. John L. Swift said: "I charge upon this road that it is imparing the health of the women and ruining the amiability and good temper of the men. I, myself, once had a beautiful temper.—Where is it now? Gone; and the Metropolitan Company took it!" On the day of the meeting, the company ran double the number of cars, for fear of the effect of the discussion. "But they are chronic backsliders," said Mr. Swift, "and they cannot be vaccinated into healthfulness."

—In a country place in France the lady of one of the neighboring chateau was accustomed, as most French ladies are, to have what might be called "beggars in waiting." One of them died a few months ago, at the door of the chateau at an early hour of the day. Having gone to bed late the night before, the lady had not risen betimes, and he waxed impatient. At last, turning to the footman, he said: "How long d'ye suppose she'll be before she comes?" "Really, I can't say," answered the servant; "may be ten minutes, may be an hour and a half." "Then I'll tell you what it is," retorted the mendicant, "she may provide herself with another beggar." And so saying, went he away.

—On the cars, last summer, a young woman arrayed in a shirt waist and a boy's straw hat, and hair cut short and curled, sat quietly reading, when an old fellow got on at Bridgeport with a friend. Looking around for a moment for an entire seat, he espied a boy sitting solitary a few seats away, and he coolly gave the straw-hatted woman a yoke, saying, "Here, you young fellow, just go and sit with that one over there—boys can't be taking up the seats this way." The young lady fronted round with an indignant exclamation, and the old man looked in perfect astonishment at the flounced and fluted skirt, out of which grew the body of a boy.—"Well, did you ever?" said he; "I can't tell one from t'other."

—Mr. Darwin gathers some curious facts regarding musical insects. Cicadas can be heard a mile. The female is mute, as well observed long ago by the Greeks, one of whose poets sang, somewhat wickedly:—"Happy the Cicada lives, since they all have voiceless wives." The sound is made by vibration at the spiracles or air-passages, and made resonant by two scale-covered cavities. The Chinese keep these creatures in cages for their song, which must be an excellent accompaniment to the tom-tom. In many insects a sound is produced by rubbing one wing against the other at points which are adapted with serrations for the purpose.—In grasshoppers the leg is armed with a row of exceedingly minute lancet-shaped teeth, with which it scrapes the wing cover, and each leg takes its turn.

—A girl six years old was on a visit to her brandfather, who was an English divine, celebrated for his logical powers.—"Only think, grandpa, what Uncle Roberts says." What does he say, my dear?" "Why, he says the moon is made of green cheese. It isn't all is it?" "Well, child, suppose you find out for yourself?" "How can I grandpa?" "Get your Bible and see what it says." "Where shall I begin?" "Begin at the beginning." The child sat down to read the Bible. Before she got more than half through the second chapter of Genesis, and had read about the creation of the stars and the animals, she came back to her grandfather, her eyes all bright with excitement of discovery: "I've found it, grandpa! it isn't true; for God made the moon before he made any cows."

—An attractive young widow, proprietress of a Fifth-avenue boarding house, New York, dressed herself in male attire on Tuesday evening, and escorted two young ladies to Wood's museum. Her disguise was not sufficient to prevent an immediate discovery by the male portion of the audience, and very soon she was receiving more attention than the performance. The result of her escapade was her arrest and confinement for a time in the station-house, though she was released, and by some hocus-pocus avoided appearing in the police court the next morning.


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Pin, Tape, and other Worms, lurking in the system of so many thousands, are effectually destroyed and removed. Says a distinguished physiologist: There is scarcely an individual upon the face of the earth whose body is exempt from the presence of worms. It is not upon the healthy elements of the body that worms exist, but upon the diseased humors and secretions. To expel these living monsters of disease. No system of Medicine, no vermifuges, no anthelmintics, will free the system from worms like these Bitters.
Mechanical Diseases. Persons engaged in Paints and Minerals, such as Plumbers, Type-setters, Gold-beaters, and Miners, as they advance in life will be subject to paralysis of the Bowels. To guard against this take a dose of WALKER'S VINEGAR BITTERS once or twice a week, as a Preventive.
Bilious, Remittent, and Intermittent Fevers, which are so prevalent in the valleys of our great rivers throughout the United States, especially those of the Mississippi, Ohio, Missouri, Illinois, Tennessee, Cumberland, Arkansas, Red, Colorado, Brazos, Rio Grande, Pearl, Alabama, Mobile, Savannah, Roanoke, James, and many others, with their vast tributaries, throughout our entire country during the Summer and Autumn, and remarkably so during seasons of unusual heat and dryness, are invariably accompanied by extensive derangements of the stomach and liver, and other abdominal viscera. There are always more or less obstructions of the liver, a weakness and irritable state of the stomach, and great torpor of the bowels, being clogged up with vitiated accumulations. In their treatment, a purgative, exerting a powerful influence upon these various organs, is essentially necessary. There is no cathartic for the purpose equal to DR. J. WALKER'S VINEGAR BITTERS, as they will speedily remove the dark-colored viscid matter with which the bowels are loaded, at the same time stimulating the secretions of the liver, and generally restoring the healthy functions of the digestive organs.
Scrofula, or King's Evil, White Swellings, Ulcers, Erysipelas, Swelled Neck, Scrofulous Inflammations, Indolent Inflammations, Mercurial Affections, Old Sores, Eruptions of the Skin, etc. In these, as in all other constitutional Diseases, WALKER'S VINEGAR BITTERS have shown their great curative powers in the most obstinate and intractable cases.
A Woman's Ailments, Nervousness and Headaches, although they seem trifling to men, are real disorders. For costiveness, dyspepsia, general debility, pains in the back and loins, nervous and sick headache, impurity of the blood, and all troubles related as "female complaints," DR. WALKER'S VINEGAR BITTERS, which are purely vegetable, and may be safely given to the most delicate, are a sovereign and specdy remedy.
Dr. Walker's California Vinegar Bitters act on all these cases in a similar manner. By purifying the Blood they remove the cause, and by resolving away the parts receive health, and a permanent cure is effected.
The properties of DR. WALKER'S VINEGAR BITTERS are Aperient, Diaphoretic and Carminative, Nutritious, Laxative, Diuretic, Sedative, Counter-Irritant, Sudorific, Alterative, and Anti-Bilious.
The Aperient and mild Laxative properties of DR. WALKER'S VINEGAR BITTERS are the best safe-guard in all cases of eruptions and malignant fevers, their balsamic, healing, and soothing properties protect the humors of the fauces. Their Sedative properties allay pain in the nervous system, stomach, and bowels, either from inflammation, wind, colic, cramps, etc. Their Counter-Irritant influence extends throughout the system. Their Diuretic properties act on the Kidneys, correcting or regulating the flow of urine. Their Anti-Bilious properties stimulate the liver, in the secretion of bile, and its discharges through the biliary ducts, and are superior to all remedial agents, for the cure of Bilious Fever, Fever and Ague, etc.
Fortify the body against disease by purifying all its fluids with VINEGAR BITTERS. No epidemic can take hold of a system thus forearmed. The liver, the stomach, the bowels, the kidneys, and the nerves are rendered disease-proof by this great invigorant.
The Efficacy of DR. WALKER'S VINEGAR BITTERS, in Chronic Dyspepsia, Fevers, Nervous Disorders, Constipation, deficiency of vital power, and all maladies affecting the stomach, liver, bowels, pulmonary organs or muscular system, has been experienced by hundreds of thousands, and hundreds of thousands more are asking for the same relief.
Directions.—Take of the Bitters on going to bed at night from a half to one and one-half wine-glassfull. Eat good nourishing food, such as beefsteak, mutton chop, venison, roast beef, and vegetables, and take out-door exercise. They are composed of purely vegetable ingredients, and contain no spirits.
J. WALKER, Prop'r. R. H. McDONALD & CO., Druggists and Gen. Agts., San Francisco, Cal., and corner of Washington and Charlton Sts., New York.
SOLD BY ALL DRUGGISTS AND DEALERS.
April 3, 1872.—m3.

ROSADALIS
ROSADALIS
THE INGREDIENTS THAT COMPOSE ROSADALIS are published on every package, therefore it is not a secret preparation, consequently
PHYSICIANS PRESCRIBE IT.
It is a certain cure for Scrofula, Syphilis in all its forms, Rheumatism, Skin Diseases, Liver Complaint and all diseases of the Blood.
ONE BOTTLE OF ROSADALIS will do more good than ten bottles of the Syrups of Sarsaparilla.
THE UNDERSIGNED PHYSICIANS have used Rosadalis in their practice for the past three years and freely endorse it as a reliable Alterative and Blood Purifier.
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Our space will not allow of any extended remarks in relation to the virtues of Rosadalis. To the Medical Profession we guarantee a Fluid Extract superior to any they have ever used in the treatment of diseased blood; and to the afflicted we say try Rosadalis, and you will be restored to health.
Rosadalis is sold by all Druggists price $1.50 per bottle. Address
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BARGAINS!
BEST BARGAINS IN TOWN IN CHOICE FAMILY GROCERIES, FLOUR, PROVISIONS, Dried and Canned Fruit, Vegetables, &c. &c., at the Head of Navigation. A. N. BULLARD.
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GOLD JEWELRY—A Fine Assortment, and other varieties of Jewelry. A few Gold and Silver Cased Watches and Watch Chains. Silver and Silver plated Spoons, Forks, Knives, &c., and a general assortment of Fancy Goods, Notions, Perfumery, &c. Drugs and Medicines, a large stock.
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RADWAY'S READY RELIEF
CURES THE WORST PAINS
In from One to Twenty Minutes.
NOT ONE HOUR
after reading this advertisement need any one
SUFFER WITH PAIN.
RADWAY'S READY RELIEF IS A CURE FOR EVERY PAIN.
It was the first and is
The Only Pain Remedy
that instantly stops the most excruciating pains, allays inflammations, and cures Congestions, whether of the Lungs, Stomach, Bowels, or other glands or organs, by one application.
IN FROM ONE TO TWENTY MINUTES.
No matter how violent or excruciating the pain the RHEUMATIC, Bed-ridden, Infirm, Crippled, Nervous, Neuralgic, or prostrated with disease may suffer.
RADWAY'S READY RELIEF
WILL AFFORD INSTANT EASE.
INFLAMMATION OF THE KIDNEYS.
INFLAMMATION OF THE BLADDER.
INFLAMMATION OF THE BOWELS.
CONGESTION OF THE LUNGS.
SORE THROAT, DIFFICULT BREATHING.
PALPITATION OF THE HEART.
HYSTERICS, CROUP, DIPHTHERIA.
CATARRH, INFLUENZA.
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COLD CHILLS, AGUE CHILLS.
The application of the Ready Relief to the part or parts where the pain or difficulty exists will afford ease and comfort.
Twenty drops in half a tumbler of water will in a few moments cure CRAMPS, SPASMS, SOUR STOMACH, HEARTBURN, SICK HEADACHE, DIARRHŒA, DYSENTERY, COLIC, WIND IN THE BOWELS, and all INTERNAL PAINS.
Travelers should always carry a bottle of Radway's Ready Relief with them. A few drops in water will prevent sickness or pains from change of water. It is better than French Brandy or Bitters as a stimulant.
FEVER AND AGUE.
FEVER AND AGUE cured for fifty cents. There is not a remedial agent in this world that will cure Fever and Ague, and all other Malarious, Bilious, Scarlet, Typhoid, Yellow, and other Fevers (aided by RADWAY'S PILLS) so quick as RADWAY'S READY RELIEF. Fifty cents per bottle. Sold by Druggists.

HEALTH! BEAUTY!!
STRONG AND PURE RICH BLOOD—INCREASE OF FLESH AND WEIGHT—CLEAR SKIN AND BEAUTIFUL COMPLEXION SECURED TO ALL.
DR. RADWAY'S
SARSAPARILLIAN RESOLVENT
HAS MADE THE MOST ASTONISHING CURES; SO QUICK, SO RAPID ARE THE CHANGES THE BODY UNDERGOES, UNDER THE INFLUENCE OF THIS TRULY WONDERFUL MEDICINE, THAT
Every Day an Increase in Flesh and Weight is Seen and Felt.
THE GREAT BLOOD PURIFIER.
Every drop of the SARSAPARILLIAN RESOLVENT communicates through the blood, sweat, urine, and other secretions, and cures the vitiated humors in the blood, whether they are of a scrofulous, syphilitic, consumptive, cancerous, glandular, cutaneous or venereal nature. Such as Tumors, Ulcers in the Throat, Mouth, Tumors, Ulcers in the Glands and other parts of the system, Sore Eyes, Strumous Inflammations from the Ears, and the worst forms of Skin diseases, Eruptions, Fever Sores, Scald Head, Ring Worm, Salt Rheum, Erysipelas, Acne, Black Spots, Worms in the Flesh, Tumors, Cancers in the Womb, and all wasting and painful discharges, Night Sweats, Loss of Sperm, and all wastes of the life principle, are within the curative range of this wonderful of Modern Chemistry, and a few days' use will prove to any person using it, the effect of these forms of disease its potent power to cure them.
If the patient, daily becoming reduced by the wastes and decomposition, that is continually progressing, succeeds in arresting these wastes, and replacing the same with new material made from healthy blood—and this the SARSAPARILLIAN will and does secure.
Not only does the SARSAPARILLIAN RESOLVENT excel all known remedial agents in the cure of Chronic,