

The Farmer's Department.

Classification of Soils.

Soils are named from the amount or proportions of the various substances which enter into their formation.

If a soil consists of sand, it is called a sandy soil.

If the largest portion is clay, it is called a clayey soil.

When lime predominates, it is called a calcareous soil.

Those substances may exist together, but in different proportions, in the same soil, in which case it usually receives a distinct name.

A mixture of sand and clay, with a small proportion of lime, is called a loamy soil.

If it contains much lime, it is called a calcareous loam.

If it be composed of clay, with much lime, it is called a calcareous clay.

A certain proportion of these substances has given specific names to soils.

Pure clay, which is commonly called pipe clay, is composed of about sixty parts silica and forty parts of alumina, with a small quantity of oxide of iron.

The clay which forms the strongest of clay soils, consists of pure clay, mixed with from five to fifteen per cent of a silicious sand, which can be separated from it by boiling or washing.

Clay loam contains from fifteen to thirty per cent of fine sand, which can be separated by boiling. The different parts of the soil may be very easily separated, and it is consequently more easily worked.

A loamy soil contains from thirty to sixty per cent of sand, which is retained so loosely that it can be readily separated from it by washing.

A sandy loam leaves from sixty to ninety per cent of sand.

Asandy soil consists mostly of sand, and contains no more than ten per cent of clay.

In a marly soil the proportions of lime must be more than five per cent, but less than twenty per cent.

Marls are called sandy, loamy and clayey, in accordance with the proportions they may contain of these substances, provided they be free from lime, or do not contain more than five per cent of this material.

Soils are denominated calcareous when the proportion of lime exceeds twenty per cent, and thus by quantity becomes an important constituent.

They are calcareous sands, which take their names from proportion of clay and sand which they may contain.

Rot in Sheep. Professor Simonds lately delivered a lecture on "Rot," in which he remarked, "It was not there that say that rot was, in all cases, a curable affection; but at the same time he was fully aware that many animals which are now considered incurable, might be restored, if sufficient attention were given them.

He intended them for experiment and dissection; but as he did not require all of them, he kept some until summer. They were supplied with food of a nutritious quality, free from moisture; they were also protected from all storms and changes of weather, being placed in a shed; the result was, that without the application of any medicine, two of those rotted sheep quite recovered, and when he killed them, although the liver had undergone some change, still the animal would have lived for years.

Rot in its advanced stage is a disease which may be considered somewhat analogous to dropsy. A fluid of a watery character accumulated in various parts of the body, chiefly beneath the skin; consequently some call it the "water rot," others the "fluke rot;" but these were merely indications of the same disease in different stages.

It was evident that in order to strike at the root of the malady, they must get rid of the flukes, and that could only be effected by bringing about a healthy condition of the system. Nothing that could be done by the application of medicine could act on them (the parasites), to affect their vitality.

It was only by strengthening the animal powers, that sufficient tone could be given to the system to throw off the flukes; for that purpose many advocated salt. Salt was an excellent stimulant to the digestive organs, and might also be of service in restoring the biliary secretion, from the soda which it contains. So well is its stimulating action known, that some persons always keep salt in the troughs containing animal food. That salt was a preventive they had good proof, seeing that it mattered not how wet the sod might be in salt marshes, no sheep were ever attacked by rot in them; while infected sheep that were sent to salt marshes, always came back free from the disease.

Salt, therefore must not be neglected. But then came the question, "Could they not do something more?"

He believed they could. They must throw tonics into the system, especially those that were obtained in the mineral kingdom. He would prefer the sulphate of iron—iron was formed in the blood of animals—and used in the form of sulphate, it gave a greater tone and energy to the frame than in any other form; its use, therefore, ought never to be neglected in the earlier stages of the disease.

He had already attended to the fact, that when the liver did not perform its functions greater effect was made by the kidneys to deplete the blood. The kidneys should therefore, be stimulated; but he must not be supposed to advise the exhibition of strong diuretics, which would induce debility, of medicines, which would give strength to the frame, and at the same time act on the kidneys; for which purpose nitric ether was an agent that ought to be employed. The principles he wished to lay down were, to husband the animals' powers, by placing them in a situation where they should not be exposed to the debilitating effects of cold storms—to supply them with nutritious food, such as contain but a small quantity of water; and to mix salt with the food; like wise to administer sulphate of iron and occasional doses of nitric ether.

Farmer and Gardener.

TO MAKE FARMING PROFITABLE.—Every beginner in farming, by securing the following essentials will succeed. Buy no more land than there is capital enough to pay for with one third free from debt, with plenty of means to stock it, and carry on its work, will yield more than a larger one encumbered with debt, conducted feebly in every part, with bad fences, poor implements, bony animals, weedy fields, and thin crops.

Lay out the fields in good order, so as to give ready access to every field at all times, passing through other fields.

Provide good fences and necessary gates, and valuable time will not be lost in driving out intruding animals, nor crops lost by their depredations.

Furnish good farm buildings to secure properly the crops, and to afford shelter to animals.

Select the best animals and the best implements that can be secured for a reasonable price.

Bring the soil into good condition by manuring and draining, and keep it so by a judicious rotation.

Effect a clear and systematic arrangement of all the work, so that there shall be no clashing or confusion.

Employ diligence and energy, and adopt careful management.

Farmer and Gardener.

HUMAN FEET.—The French foot is mongre, narrow and bony; the Spanish is small and elegantly curved—thanks to its Moorish blood, corresponding with the Castilian pride—"high in the instep." The Arab foot is "prober for its high arch; a stream can run under the hollow of it." The foot of the Scotch is large and thick; that of the Irish, flat and square; the English short and fleshy. The American foot is apt to be disproportionately small.

A foot, for both beauty and speed, should be arched, fairly rounded, and its length proportioned to the height of the person. The ankle, especially of women, should express tenderness—should be round and firm, and not too small. The reader may readily trace the marked peculiarities of a nation by the form of the feet of its people; and from the national characteristics evinced by the feet readily judged, it will be perceived that the ablest people, intellectually, enjoy the advantages of the firmest understandings.

Judged by this theory, the inhabitants of our Middle States occupy the highest scale in the intellectual entities; for with-out their feet being so diminutive as are those of the Orientals, they add to the firmness of the English, Scotch and Irish feet, the reached elasticity of the Arab and Moor.

Since we enjoy the blessings of such superior feet, how great is the cause of regret that we have not better shoemakers! There is not one of them in a hundred who understands the first principle of fitting the toe easily and gracefully. They vainly suppose that by tracing the shape of the sole on a piece of paper and then measuring round the toe, heel and instep, they have thereby obtained the shape of the foot; whereas they have not even derived the data from which to guess its shape. If in High Art the aphorism by Raphael that "outline is the picture" should always be regarded, how much more implicitly should be adhered to in dressing the feet! The shoemaker must obtain the shape of the foot before he can find it. The size is not the shape. Besides the size, the artisan should ascertain the height of the instep from a dead level.

This piece of art-philosophy, shoemakers would do well to study. A private letter from off Charles-ton states that the rebel officers recently sent to Gen. Foster have been placed in comfortable quarters, where the rebels shall be sent; while infected sheep that were sent to salt marshes, always came back free from the disease.

LEGAL ADVERTISEMENTS.

Administrator's Notice. Estate of Joseph D. Fowler, dec'd. Letters of Administration to the Estate of Joseph D. Fowler, late of Marion township, Butler County, Tenn., dec'd., have been granted to the undersigned, all persons indebted to the said estate, are requested to make immediate payment, and those having claims against the same, to present them to the undersigned, who will pay the same without delay.

Executor's Notice. Estate of David H. Henshaw, dec'd. HERRAS Letters Testamentary with the Will annexed, has this day been duly issued by the Register of the County of Marion, Tenn., to the undersigned, all persons indebted to the said estate, are requested to make immediate payment, and those having claims against the same, to present them to the undersigned, who will pay the same without delay.

Administrator's Notice. Estate of John M. Gill, dec'd. Letters of Administration to the Estate of John M. Gill, late of Marion township, dec'd., have been granted to the undersigned, all persons indebted to the said estate, are requested to make immediate payment, and those having claims against the same, to present them to the undersigned, who will pay the same without delay.

AMERICAN CITIZEN Job Printing Office. Ornamental, Plain, Fancy, Card, Book and General Job Printing, Corner of Main and Jefferson Streets, Opposite Jack's Hotel, Butler, Pa.

THE WORLD Brought right in the Very Midst of BUTLER, SITUATE ON MAIN STREET.

Geo. Vogeley, Jr. Manufacturer and Dealer in all kinds of Tobacco, Snuff, and Segars.

will execute everything in the line of LAIN AND DECORATIVE PRINTING, NEATLY, PROMPTLY, AND AT REASONABLE RATES.

Business Advertisements. NEW MARBLE SHOP. The undersigned would respectfully inform the public, that they have just received a new Marble Shop, on Washington street, near the English Lutheran Church, Butler, Pa.

Stoves and Ploughs. W. C. Beckler & Son, Manufacturers of Stoves and Ploughs, 101 Main Street, Butler, Pa.

New Harness Shop. SADDLERY AND HARNESS, 101 Main Street, Butler, Pa.

Professional Cards. W. H. H. RIDDLE, Attorney and Counsellor at Law, Office with E. M. J. Lure, opposite the Pennsylvania Hotel, Butler, Pa.

R. M. M'LORE, Attorney at Law, and Pension and Claim Agent, Office with E. M. J. Lure, opposite the Pennsylvania Hotel, Butler, Pa.

J. D. M'JUNKIN, Attorney at Law, Also Licensed Claim Agent, Office with E. M. J. Lure, opposite the Pennsylvania Hotel, Butler, Pa.

McCandless & Graham, Attorneys at Law, Office on the southeast corner of the Diamond, Butler, Pa.

A. M. NEYMAN, M. D., Physician and Surgeon, Office immediately opposite Walker's building, Butler, Pa.

MISCELLANEOUS NOTICES.

THE GREAT American Tea Company, 51 Vesey Street, New York. Since its organization, has created a new era in the history of Selling TEAS in this Country.

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IMPORTANT NOTICES.

NOTICE TO FARMERS! The undersigned respectfully informs the citizens of Butler County, and the public generally, that he is prepared to remove the Ring Bone and Bone Spavin, with one single application, in from Six to Nine days, without injuring the Horse the least. The subscriber will accept of no fee.

TOWNSHIP RIGHTS. For the cure of the above diseases, for which a Copy Right was secured. The Medicine is entirely safe—effectually removing the Ring Bone and Spavin, while it will injure the Horse in no manner.

CHEAP DRUG STORE. Dr. James H. Holl. Dealer in all kinds of Drugs and Chemicals, Oil, Paints and Varnish. Also, Henshaw, Butler, Pa.

JACK'S HOTEL. F. S. MAGEE, Proprietor. Corner of Main and Jefferson Streets, Butler, Pa.

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PERIODICAL NOTICES.

TERMS reduced to Old Prices. GODEY'S LADY'S BOOK. For 1864. Great Literary and Pictorial Year!

THE PUBLISHER of Godey's Lady's Book, thankful for the success which has attended his publications, and for the fact that he has published a magazine for the last forty-four years of a larger circulation than any in the country, has made an arrangement with the most popular authors in this country to publish a new volume.

THE BEST Lady's Magazine in the World, and the Cheapest. THE TRIBUNE FOR 1864. Prospectus.

THE NEW YORK TRIBUNE, first issued April 10, 1841, has today a larger aggregate circulation than any other newspaper published in America, or, we believe in the world.

REDICK'S DRUG STORE, Opposite Steine's Store. DEALERS IN ALL KINDS OF DRUGS AND CHEMICALS, OIL, PAINTS AND VARNISH.

THE TRIBUNE FOR 1864. Prospectus. The New York Tribune, first issued April 10, 1841, has today a larger aggregate circulation than any other newspaper published in America, or, we believe in the world.

GERMANTOWN TELEGRAPH. A Family and Agricultural Journal, DEVOTED TO CHOICE LITERATURE, Poetry, Novels, Tales, AND MORAL AND ENTERTAINING READING GENERALLY.

AGRICULTURE & HORTICULTURE. FARMING, GARDENING, FRUIT-RAISING, &c. The undersigned respectfully informs the public, that he is prepared to remove the Ring Bone and Bone Spavin, with one single application, in from Six to Nine days, without injuring the Horse the least.

Watches, Clocks & Jewellery. If you want a good Watch, Clock, or set of good Jewellery, you will do well to call on the undersigned, who has a large assortment of the best of the kind, and at very low prices.

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