







The Farm.

Feeding Stock Scientifically

When we have had a scarcity of fodder in the country, we begin to enquire very anxiously how we can economise our fodder so as to keep our cattle and other stock in the usual good condition at the least cost.

The communications of our old friend, Martin Mower, in our last number and this, on this subject, are worthy of consideration; and as he is testing his theories by actual practice in his own barn and on his own stock, keeping a careful record of the outlay and the receipts, they will form a safe guide for others.

It will be seen that he relies mainly upon the turnip (Ruta Baga) for the basis of his economy in feeding. We have always been, and probably always shall be, a fast friend to the turnip culture in Maine, although we are aware that many of our friends and readers have repudiated them, and sometimes beg us "not to coax them to sow any more turnips."

It is also a fact that the turnip can be grown as economically here as there, and when grown, possesses the same elements or ingredients. Why not as valuable, then, here as there, in and of itself considered?

The difference in the expense of feeding turnips between our country and England, is this.—Their winters are so mild that they turn their cattle into the fields and let them help themselves, while we must gather and house them. We think, however, that the English mode is rather a slovenish one, and the economy of it doubtful, even there.

The food of the living animals stands at a given temperature, called blood-heat. This heat must be, and is, kept up from three sources, viz: by excluding the cold, or applying external heat; or the liberation of caloric or heat, from the carbon of their food; or from the carbon and hydrogen contained in the fat of their own system.

We may consider the animal structure a perfect furnace, formed by the architect of nature, of which our stoves are but an imitation, which we will take to illustrate. The means of heat are the same in both cases. Will we place the stove in the field, where all the heat radiated causes a current of cold air to rush to the point radiated? or will we exclude the external air, except what is necessary to support combustion, and thus circumscribe the heat radiated within the enclosure, (on the air-tight principle)?

For heat, will we use coal, wood, and the grosser kinds of carbon, or will we use oils, and fats, which contain more hydrogen and less oxygen? The only difference in the parallel, in nature combines the nutritive with the combustible, thus serving the triple purpose of supplying heat, waste, and increase of the body.

The feeding art consists in selecting and supplying material food with reference to this difference; for the animal creates nothing,—it only changes vegetable into animal matter, first, by decomposition or modification, which is a chemical process; and second, by organization, which is a living process, and which the chemist is yet unable to explain.

portion of the elements of nutrition, would form an item of no less magnitude. A saving of fifty per cent in wintering the stock in this State, would furnish a sum sufficient to support every boy in the State at an agricultural school, and something left for contingencies.

Sandy Soils.—Modes of Recovering Them. Sandy soils, like all other soils, differ widely in quality, and hence it is difficult to apply a common remedy to them all. In answer to W. E., however, whose soil, from the tenor of his letter, is evidently blowey, we would recommend the following:

His immediate neighbourhood must doubtless contain much swamp muck, as his soil seems to be denuded of much vegetable matter, and has probably yielded up its original organic constituents to floods passing over its surface. This muck should be returned to sandy soil to supply it with organic matter.

Clay once charged with ammonia, and properly sub-vented in a sandy soil, loses some of its mechanical peculiarities, and ceases to form a mortar with the soil. In localities where muck cannot be procured, and organic substances are not readily obtainable, charcoal dust may be used for the purpose of rendering the soil retentive of ammonia; but this alone will not correct the over-pulverulent property of the sand. It will, however, accelerate the growth of clover, buckwheat and other green crops, the plowing of which will increase the organic matter of the soil, and add to its tenacity.

It would indeed, be strange, if, while in England the turnip is considered their greatest and most economical aid in feeding their stock, having been the means of quadrupling the number of their farm animals, since its culture was first introduced among them, the same feed should have no nutriment here, and be a useless crop to the farmer.

The steaming of turnips and mingling them with other material, as practised by Mr. Mower, is undoubtedly the best mode.

The time has not long since been when very many farmers had a strong antipathy to book farming, believing that any deviation from the method pursued by their fathers and grandfathers, even though it were as ludicrous as putting "a stone in one end of the bag, to balance the corn going to the mill," must be erroneous, and were ready to pronounce it spurious on the part of those who were not content to walk in the old beaten track.

As efficient a filter as can possibly be constructed may be made in a few minutes by any person, and at the cost of a very few pence. Procure a clean flower-pot of the common kind, close the opening in the bottom by a piece of sponge, then place in the inside a layer of small stones, previously well cleansed by washing; this layer may be about two inches deep, the upper stones being very small; next procure some freshly burnt charcoal, which has not been kept in a damp or foul place, as it rapidly absorbs any strong smells, and so becomes tainted and unfit for such purpose; reduce this to powder, and mix it with twice its bulk of clear, well-washed, sharp sand; with this mixture fill the pot to within a short distance of the top, covering it with a layer of small stones, or what is perhaps better, place a piece of thick cloth flannel over it, large enough to tie round the rim of the pot outside, and to form a hollow inside, into which the water to be filtered is to be poured, and which will be found to flow out rapidly through the sponge in an exceedingly pure state.

The flannel removes the grosser impurities floating in the water, but the latter absorbs much of the decaying animal and vegetable bodies actually dissolved in it; when it becomes charged with them it loses its power, hence the necessity for a supply of fresh charcoal at intervals.—Monthly Observer, No. 1.

Simple Electrifying Machine.

Have a dry tumbler-glass upon the table; and place thereon a dry japanned tea-tray (not too large) then take a ball of fine fire till or cartridge paper, hold it before the fire till quite dry and warm, but not to scorch it; lay it flat upon a table, and with a piece of India rubber give it twelve or fourteen brisk raps from left to right. Lift it quickly and carefully by the extreme corners, and drop it upon the tray (it will fall like a lump of lead. On presenting the knuckle to the edge of the tray, a spark an inch long may be obtained; remove the paper (by holding the corners as before), and present the knuckle again, you will now receive a second spark, (or rather the negative brush); replace the paper, and you get the positive spark again. This plan of removing and replacing the paper may be repeated several times, with once rubbing; but the electricity should be perfectly discharged by touching the tray each time after drawing the spark.

Murdock first used gas to light up his office at Redrah in 1792. "It would," says Liebig, "be one of the greatest discoveries of the age, if any one could succeed in condensing coals into a white, dry, solid, odorless substance, portable, and capable of being placed on a candlestick or burned in a lamp." Already is the desire of Liebig being accomplished. A mineral oil flowed out of coal in Derbyshire, obviously produced by slow distillation from the coal. On examination it has been ascertained that paraffine, a solid wax substance, hitherto never produced from coal, be formed in commercial quantities by a slow and regular distillation. This is condensed coal-gas—a solid form of olefiant gas, desired by Liebig. In forming cakes, this product, dissolved in an oil of a similar composition, may be readily obtained instead of the waste gases now allowed to escape. Should this discovery be as successful as it promises, a great change will be wrought in fuel as well as illuminating gas.

Interposing to Blacksmiths. Horse-shoe nails, kicked about the world by horses innumerable, are not the useless fragments we might naturally deem them. Military men may discuss the relative value of Minie rifles and needle guns, but we all agree that the material of which the barrels are made should be sound and tough; gun-makers tell us that iron is so well fitted for this purpose as that which is derived from horse-shoe nails and similar wrought iron fragments. The nails are in the first instance made of good sound iron, and the violent concussion which they receive when a horse is walking over a stony road, give a peculiar annealing and toughening to the metal highly beneficial to its subsequent use for gun-barrels.

No. 1, South Market Wharf. W. TISDALE & SON. Have received ex 'Acton' from London, 'Henry Holland' from the Clyde, and 'Themia' from Liverpool.—

ASKS Baled and Raw Lined OIL, casks PUTTY, Yellow Green, and Black Paints; 100 kgs Hall's Fowling and Gun-stone POWDER; 120 lbs. of Yarn, BAKERS, SPIDERS, GRIDDLES, FAY & PAWS, BAKERS, &c. Casks CARBON, Fire Dogs, Fire Irons, &c. Cases THOMPSON'S long and short BARRELS, CASKS SHOT, and BOLT SHEET LEAD, Lead Pipe, and BLOCK TIN; Casks TAYLOR'S KEYS, SCAFFOLDS, and Enamelled; Casks SAD IRONS, Shoe Blks, in iron, brass, and zinc; Casks CLAMP, BUCKLES, and other HARDWARE; CASKS SHOT, and BOLT SHEET LEAD, Lead Pipe, and BLOCK TIN; Casks TAYLOR'S KEYS, SCAFFOLDS, and Enamelled; Casks SAD IRONS, Shoe Blks, in iron, brass, and zinc; Casks CLAMP, BUCKLES, and other HARDWARE.

MORRISON & CO., Prince William-street, Are receiving per Mail Steamers "Canada" and "America," Ships "Oliver," "Zeland," "J. G. Hall," &c., &c.

AN EXTENSIVE ASSORTMENT OF GOODS. PAISLEY, Printed Calicoes, Wool, &c., &c.; French MERINOS, in every shade; EMBROIDERED DRESSES; Printed CACHMERS; Black and colored HABIL CLOTHS; Black and colored TULLEUM CLOTH; Black and colored MANTLES, newest styles; Black and colored GENOVA VELVETS and Plushes; Black, colored and Shot GLOUCE SILKS; Black Barched SILK; Black French SATIN; Black Pure SATIN; Plaid Bonnet RIBBONS; Velvet and Ribbon Braçettes; Cloak Tassels; Fitch FURS; LINES, Linen Sheetting and Table DAMASK, FLANNELS, Twilled and Plain, &c., &c., which with their present stock, will be sold decidedly cheap for Cash.

Per Steamer "Niagara," JUST ARRIVED.— A LOT of black and colored RIBBONS, PERSIANS, SARRETTES and SATINS, Black Ribbon VELVETS, Sewing Silks and Twist, superior black LACES, Crimson and Scarlet Worsted FRINGS. An assortment of FLOOR CLOTHS, comprising the following widths, (in choice new patterns): 2 feet, 3 feet 3 inches, 2 feet 5 inches, 2 feet 9 inches, 3 feet, 3 feet 6 inches, 4 feet 3 inches, 5 feet 4 inches, 5 feet 6 inches, 5 feet 9 inches, 6 feet, 7 feet 5 inches, 8 feet 10 inches, 8 feet 3 inches.

Poster's Corner, Germain-street.

ADIES' white and Black Satin SLIPPERS, Do. White, Black and Bound Kid ditto; Do. French Cashmere BOOTS, very light; Do. Exhibition Slippers, Silk Lined for Dancing; Do. Black and Coloured French Merino—'Cossacks' for Walking; Misses and Children's very Fine, Medium and Low priced BOOTS and SHOES, in almost endless variety. And always on hand—Every description of BOOTS & SHOES that may be required for City or Country wear. Further Supplies of the Newest and most Fashionable wares, shortly expected per Ship Mary Caroline and Steamer. Ladies and Families visiting our City are most respectfully invited to call.

Domestic Manufactures. Men's Black and Drab Cloth Congress Boots; Do. Patent, Enamelled, French Calf and Morocco Side Spring BOOTS—Dress and Walking. Do. Light Sole Peg'd Patent, Morocco, Enamelled, Calf and Grain BOOTES; Boys, Youths, and Children's Calf, Grain, Morocco, Patent, and Enamelled BOOTES; Youths and Children's Strong Boots and Bootlets; Children's Patent and Enamelled fancy Boots and Shoes, in several styles; Women's strong Shoes for service. Orders from the Country attended to. Aug. 17, 1852. S. K. FOSTER.

New Fruit, Tea, &c. Now landing ex Brig. Arrow, from Halifax— 20 CHESTS fine Congo TEA, 2 bags PIMENTO, 408 Boxes, Halves and Quarters fresh Muscatel and Layer RAISINS; 30 kgs. of Choice 50 Shillings BEST PIGS; 100 lbs. and boxes Jordan Almonds, 5 casks fresh Filberts; 2 kgs. best Bermuda ARROWROOT; 5 barrels fresh Hickory Nuts; 150 lbs. superior Buckwheat Flour, 5 lbs. Burning FLUID; 5 bags Castana Nuts, 5 dozen Lemon Syrup; 7 casks New Rice. To Arrive—2500 bushels BLACK OATS.—For sale by JARDINE & CO. St. John, Nov. 23, 1852.

Sheffield House, Market square, April 17, 1852. To Watchmakers, Jewellers, &c. ROBINSON & THOMPSON have just opened an assortment of WATCH MATERIALS, TOOLS, &c., which they offer to the Trade at very low prices, consisting of English and Geneva Gold, Steel, and Metal WATCH MOVES—Butterfly motion, swivel, and other patterns; Steel Seconds; Gold and Metal Centres; Jew. Lever Fuse Chains; French do. do; English and Geneva Hair Springs—Verge do.; Chain Hook Lever Staffs; Lever and Verge Screws; Case Springs and Buttons; Jewel Holes, &c.; Ruby Pins; Brass Curbs; Brass Keyers; Geneva Keyer's Work; Indexes; Silver and G. S. Bows and Pendants; Watch Dials, Watch Glasses, Jewels, Catches and Ornaments for repairing; Watch Brooch Pins in Gold, G. Steel and Brass; Ear-ring loops, Cramps, and Claws; Screw Peraltes; French Drills; Drill Stocks, self-acting do.; Pivot Hammer; Geneva Keyer's Work; Indexes; Silver and G. S. 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