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THE COLONIAL FARMER, EVOETD TO THE AGRICULTURAL INTERESTS OF NOVA-SCOTIA, NEW-BRUNSWICK, AND PRINCE EDWARD'S ISLAND.

OL. 2.

HALIFAX, N. S., MAY 1, 1843.

NO. 21.



THE COLONIAL FARMER.

HALIFAX, N. S., MAY 1, 1843.

AGRICULTURAL CHEMISTRY,

The principle of Life has always eluded the researches of philohers, its existence is known to all, but no one can grasp it. We havery living thing, actions and processes which are capable explanation from the principles of mechanics' or Chemistry, but bath the animal and the plant we perceive that these principles under the command of another which we cannot comprehend has the opening and shutting of the hand we know is performed the action of the muscles, or what is commonly called the lean a, which is composed of clastic fibres which are always disposed contract, and which may be compared to a skein of woollen yarn aderably stretched, which whill immediately become shorter in left at liberty; we know also that the muscles which open those which shut the hand, exactly balance each other; but ido not know, nor shall we, unless it be after " - 1 mismortal coil," why it is, that whenever it is our will to open or at the hand, this balance is instantly destroyed, by the muscle tit is our will shall act, becoming stronger than its antagonist. we than a century ago, a learned physician after overthrowing theory of the cause of animal heat that was then in fashion, wight very strong arguments to prove that it was caused in a atmeasure by the process of digesting and assimilating the food. e discoveries of the new Chemistry have enabled Leibeg to ing so many facts to bear upon this subject, that he may be said ave almost demonstrated it: yet Chemistry cannot explain how it hit animals retain their heat, while in a torpid state, for many ths, when no such process is going on. In vegetables, we see mical as well as mechanical operations performed, but under direction of a power that we cannot comprehend. Through the summer, while vegetation is going on, the wood of a maple appears moist if cut, but no sap flows from it ,---the leaves have kid and astringent taste, which continues till they die, when we them nearly tasteless, and may rationally conclude that a ion of their juices have retired to the stem. When it has bee so cold that the wood of the tree has been frozen, if a warm should come, a portion of sap will always flow from a wound e wood, and this quantity will continue to increase till very the time that the buds begin to swell, when it will start from with a force that indicates a pressure of some clastic sube, the sap at this time containing little more than two thirds quantity of sugar in a gallon than it did in February, but flow

ing so fast that san enough to make a pound of sugar may be procured from v tree in one day, but should the weather then suddenly turn very warm, within thirty-six hours not a drop of sap will be found to flow upon cutting the trees, but it will be perceived that the buds have swelled, and that the bark is separated from the wood by a tasteless mucilaginous substance like scalded starch. We see that within thirty-six hours a chemical process has changed the sugar to mucilage, which will in a few days more become a fibrous substance, and we may perceive that in the motion of the sap that there has been a mechanical process, for the sap runs rapidly, only when a very cold night is followed by a very warm day. During the cold night the volume of the air in the veins of the tree is greatly diminished, thus giving room for the roots to suck up moisture, and so far as the sap in the tree is frozen it must emit air, (as we see that water at the instant of freezing always evolves a great quantity of air. causing a perpetual rapid motion of the first formed particles of ice, and innumerable airbubbles in the ice after the whole surface is frozen.) The heat of the day will expand this air with sufficient power to push on the sap, but what principle of Mechanics' or Chemistry can make it place where needed, bark, wood, flower leaves, the waxlike pollen of the male flower, supple fibre for leaf-stems, &c ? We shall never learn from Chemistry why plants in dry weather contract and wrinkle their leaves so as to appear stationary, while the roots are rapidly increasing; nor why, when the drought is terminated by a sudden shower, they shake all the reefs out of their leaves, expand them to the utmost, and push out new ones rapidly. We readily discover the wisdom of this arrangement. The Potatoe by extending its roots can collect more moisture, and by withking its tensor, it quantities the evaporation; and when a heavy shower falls, by fully expanding its leaves and greatly increasing the exposed surface it prevents suffocation from too large a quantity of water, by increasing the evaporation; but we no more comprehend the principle which directs these actions, than we do that which cause earth worms which lie in hard trod rich ground, always to hore a great number of holes the night before a rain. When we see them creeping out of their heles in the shower, we readily perceive they had been drowned had they not opened these passages, but how these blind, stupid creatures could, under six inches of earth, foresee what we did not, we do not conceive. It is not chemical attraction that causes the stamina of many flowers to bend towards the female part of the flower, when the pollen is ready to burst, nor does it cause the leaves of plants to close at night, and before rain to shelter their young buds, or . flowers, nor can it be an attraction of this kind that makes plants of different kinds which grow near together take up such different proportions of the substances contained in the soil, evidently showing that in their selection they are guided by something analogous to the appetites and powers of digestion in animals. We find a most extensive range of substances which serve for food for animals. Uunnmbered millions of the little sparklers of the occan which show like fire by night, appear to live mostly upon limestone and shells, and though soft gelatinous substances, are capable of perforating the flint; yet their food will appear less strango when we consider the quantity of carbon which it contains, and which forms no small part of the food of other animals. The

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Catibou feeds; even in summer, upon Lichens (paper mosses) in a great measure, treading down and never tasting the Convallarias and grasses which are engerly caten by Cows. The cows will, when hungry, eat Lichens, but the Horse will not, yet he will eat the large Swamp Fern (Osmunia Ciunamomea,) which the com will not. The Moose will not grow lean in winter, if he can find althicket of young Moosewood, (Acer Pennsylcanicum) which lie will browse upon, eating twigs an inch in diameter. In summer ins fredshot at all upon herbs that grow on the ground, living upon leaves of trees and shrubs. The great length of his legs enables lum to hear down with his breast young trees of a considerable size; and his enormous lips are well formed for stripping off their leaves !. The Bear, like the Hog, cats every kind of grain and nuts; flesh, fish, "fruit, insects and roots of various kinds; and it is well' that have been in winter, when cattle must have fed him had he bednawake. The Fox is eager for fruit, flesh, and fish, but vlogs not eat grain or roots. 'The squirrel lives on seeds and nuts where he call find them in abundance, but in colder regions makes ditadful havor of the young birds, and feeds greedily upon eggs, Did hill animals live upon exactly the same kinds of food, the strong would'htarve the weak in a time of scarcity ; and did all vegetables require their ne kind of food, many weak plants of slow growth would'cease to exist. There are two causes which prevent most of that crops which we cultivate from continuing to thrive for a long time 'on 'the same ground. Insects collect about many plants in such numbers that they materially injure the crop by the second or third year. "The roots of Red Clover are always injured in this wsy, by h inihuto worm, resembling that which attacks the roots of peas. " "The Swedish Turnip and Cabbage attract the small bug that causes the clubfoot, and most or all of the vegetables we 'cullivate'are inore or less injured in their roots by similar vermin, which are often so small that we can hardly see them. A naked fallow; when the ground is so frequently stirred that no vegetables sro allowed 'to grow upon it, must destroy a great part of these whimals as well as the seeds of words, and it is underubetedly to the introlluction of this expensive process is to be ascribed, for it certainly impoverishes a shallow soil more than any crop whatever. Another banse of the failure of crops continued for a long time on tuo'same ground, is, that there are few soils that contain inexhaustible' inhatities of all the constituents of a vegetable, and of those shustantes, which are necessary for preparing its food. Thus 'if an 'old' pasture be broken up and well manured, it will in a favourable station, give a large crop of potatoes of the best quality ; but if the same crop should be raised on this land for seven years in succession; it will be found to fail somewhat in quantity, and 'much'in quality, although it should be constantly well manured; 'but"should" it now be sowed with grass, it will give a better crop than it would have done had it been sowed when first broke up. 'A rotation of crops prevents, in a considerable degree, the loss drising from these sources, and has probably been practised for time îmmemorial în those countries that were highly cultivated. We learn from Virgil, that it was well known to the Romans; but by rotations of crops we find we cannot wholly prevent the depredations obinsects and worms; their eggs will remain in a dormant state for yests without loosing their vitality, and it is necessary that cultivated land should occasionally be laid down to pasture and permitted to rest for some years. Chemistry has pointed out s considerable part of the elements of the food of plants, and we may so far safely trust to it. It is certain that neither animal nor vegetable possesses the power of creating any portion of them; they must be furnished to them. If therefore we find that the soil

lacks, an ingredient which is necessary to the crop we sow, should add that to it in the form of manure, but Chemistan Physiologists give us, together with facts that are demonstrated, great many hypotheses, founded upon reasoning which might trusted to, if all the data upon which it is founded were certis but there is still much that is unknown upon these subjects the principle of life performs its chemical operations in a peculiar m of its own. Seashore plants which are exposed to salt water cal tain a large proportion of the sods, and but a little of the acida the salt. The Evergreen Fumitory contains a very large pa portion of Potash, and is constantly (in summer) emitting the so of nitre, in a guseous state from its roots. It would then perhap be possible for plants that needed nitrogen to take it from the common air, of which it forms the greatest part, if no anneal were within their reach. Among the unknown things that believo may be discovered by Chomistry we will mention the difference between the dark mould formed from decayed vegetili which grew on the richest solls, and peat earth formed from the productions of the most barren. These will be both call Humus, but they differ as much as day and night. When G mistry can discover in what the difference consists, we may be to form a good manure from peat .- Again, we observe the generally vegetables are said to be decomposed by putrefaction without paying any attention to the operations of the Fungi whi prepare the dead vegetables for putrefaction, and do the great part of the work. All dead vegetables, in situations exposed the weather, are attacked by the Fungi, under whose opens far the greater part disappears. When a quantity of stable mas mixed with straw is thrown into a heap, it soon grows hot, a when this heat has continued for a week, if it is opened, a vis substance with a peculiar smell of the Mushroom will be for branching through it in every direction, and forming no isa siderable part of the whole heap. The straw in contact with substance is brown, brittle, and appears to have lost two thisks its weight : a small black watery mushroom often springs for . -ponine In general, leaves and herbaccous plants are stikl by the soft mushreams, and wood by the harder touenwoods; a bark of large trees at the same time being consumed by the h ile b ears or leather like Fungi, and the twigs by the gelatinous h melle. We have seen a large spruce spar left in the woods it became dry rotted, it had lost more than half its original weight, b upon splitting it open it was found to be full of fissures h 23 transverse and longitudinal, dividing it into smaller pieces, the lo ioli; would have been produced by burning it to coal. Every for was occupied by a layer of fungus resembling white glove less by this fungue apparently forming not less than a fourth of the d e of mass. In this state some of these trees continue many years be hgly putrefaction really commences, the fungus still remaining in g living state, as is proved by the touchwoods of a large size that formed in one night upon a tree that had been long dry-rottes had never put out one before. There is another species which remarkable for bolding a great quantity of water, which qui reduces a tree to a state resembling a heap of wet half rotten be ពងក soon followed by complete decomposition. In warm wet weik when wood, and also the fungus which partly decomposed it in a putrefying state, they frequently show phosphoric if We are inclined to believe that the Fungi are formed i vegetable materials by animalcules akin to those which for than corals from carbonate of lime. [We are aware that this heretical doctrine, but it is a lapse to which we have found selves exposed in mo a than one instance, from believing evidence of our own senses.] Unlike most vegetables the F

ry remarkably in the quantity of potash they hold. The ashes a touchwood from the yellow Birch are mostly earbanate of ish; those of one of apparently the same species from the et contain very little. Before the decomposition of vege-Mrs as performed in the laboratory of nature, can be well exami-A the agency of the Fungi must be taken into consideration ; are they the only agents, many insects assist them, of which er feed upon the Fungi. We have Tables of the quantity of timent contained in various kinds of grasses and other food. he would be very useful were they founded on certain data. feiblak they are not. They should be formed by farmers rather a Chomists. The trial should be made, not in a laboratory, in the stomachs of the animals. Sir Humphrey Davy acested Timothy grass most valuable when nearly ripe ; it would shally be found so for horses, but much better for cows before levers. According to Leiblg a large proportion of our bread scaly uscless, for he thinks that starch gum and sugar will not mmuscular fibre, or any part of an animal except fat. The is seconding to his theory, should have become a feeble race ded with fat, for Potatoes being chiefly starch, should have ned very little muscular fibre. Many millions besides the Irish e live mostly upon potatoes, yet grow to the ordinary size, and asstrong as their fathers were. The African Negro, while kading gum for five or six weeks, lives upon it, and gains flesh; be is then in constant exercise, his muscles certainly are supd with what they lose by constant wear. Not to dwell longer so this strange theory, we would simply ask, IIas any farmer thund an article of food by which an animal can be fattened bout at the same time supporting his strength? We desire we may not be misunderstood as wishing to discourage the lication of Chemistry to Agriculture. Far from it. Much tu useful has been discovered, and much more we confidently avill be. But we do wish that in publishing these discoveries popular form, such language may be used, that the uninitiated be able to distinguish between demonstrated facts, and ries formed by reasoning from, perhaps, insufficient data. Boyal Highland Agricultural Society have caused some falexperiments to be tried upon feeding, and many experiments eleen made by others to ascertain the value of different kinds od for farming stock, some of which furnish useful informa-, but far the greater part have not been conducted in such a as to prove anything But the person who can afford the to attend to an experiment of this kind will certainly confer bligation upon his brother farmers by publishing it, for it is by a great number of experiments that we can get a correct eofthe relative value of different kinds of food. We would gly recommend experiments to ascertain the proper season for ing hay, as we believe that it is generally cut too late. Sey years ago, farmers on Connecticut River were accustomed to part of their wheat before it was fully ripe, in order to get rofsuperior quality for their pastry, but it was supposed that must be a loss in the quantity. It appears now, from Mr. nam's experiments, that the unripe wheat gives not only the but the most flour; the last process of ripening being only an ase of bran at the expense of the flour. By reasoning, a y was formed, that boiled oats must be more putritive to a than raw; but the experiments directed by the Royal land Society, have proved that the reverse is the fact. This 7 was founded upon insufficient data; the powers of the ch of the horse were not known. Experience is the oulv

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cooking putatoes for swine. An experiment friell-in the States scoms to prove that they are better in a raw state. This'exterio ment ought to be repeated by several persons, for if this result is confirmed, it will effect a great saving with those who have been used to cook their potatoes.

The experiments that lead to useful discoveries, are often unprofitable to those that make them, but we have all received much useful information from those who preceded us, and it will cancel a part of our debt, if we make an addition to the stock of human, knowledge, however small it may be, for millions are composed of units. Knowledge is the most valuable inheritance we can leave to our descendants.

MANURES.

These may be ranged in two classes, one, comprehending, that dung of horses and cattle, rotted grass sod, and, decayed, regard tables of every kind that grow on rich land, may,bg applied,to,tha, land in any quantity without injuring the soil, although, it, is, pqs, sible to rain a crop by over manuring; the other goapprising lime, sea plants, and many saline substances, to which manay, add, firsh and fish, if applied in too large quantities, or too frequently, will, injure the soil, and in some cases this injury: is not recovered from. for a number of years. Lorad from contributions

Kelp and Rockweed appear to change, when decaying; mostly into a gaseous or vapoury state, leaving very little visible bemainder. While decaying, this vapour is a powerful manures Int it cannot be confined by a covering of earth. We have in the Spring, made a heap with about twenty loads of Rockweed, and the same quantity of soil from a pasture. 'At the end of three weeks, when it had become hot, it was turned, for the purpose of cutting the sod finer, and used for potatoes, producing storop equal in quantity to what would have been produced from stable manures but of inferior quality. We have also, in the fally-made al aimilar heap, with 100 loads of Rockweed and 100 loads of Soday is heated and did not freeze in winter. When turnyd.in.the.Sprjog.Ahe Rickweed had disappoored and the rod had becomagune, rations it had the strong smell of seamud, (Sulphursted, Algdragen,) and appeared to the eye like good manure, but, the, featilizing, vapour had evaporated. Twenty loads of fresh-aut., Rackwred., usedi. #\$ soon as it began to decay, produced more than the moale heanwhan

Flesh and Fish are, while decaying, powerful-manuros, busrif allowed to decay mixed with earth, the most valuable part ir dissinated. We have read indeed, of twenty-loads of manure fromia dead horse, but never were able to learn the art of hising the volur tile effluvia from decaying animal substances: "Ai puundlofifesta will, it is believed, produce as good a hilbof patatods as destroyedfull of dung. When the first settlers of New-England-plothful their first crop of Indian Corn, they were directed by an Autian to make a Weir for catching Shad, and to, put a Shad ingach hill of Corn. We recollect, that in years long, byggne, it, was, chatquery with boys who were boeing Corn, if they, killed p.hlask snakenr, an adder, to coil it round a hill of Corn and coverit with earth a the leaves of the corn in a short time acquired a very dark green adar. grew very rapidly, and generally produced, any cours, much as the aljoining hills. Fish Gibs in a heap of manura, lose, mosh, of their value. They should be put into the ground with the stop, or applied while growing, if possible, but the procured in the fall should be prevented as much as possible from decaying by mitting with peak earlie placed where the sup , will not shing uppon it. Manures of this kind should be used alternately with stable-manfoundation for a correct theory. Much labour is expended in use and compost. Laid has been often injured for some years by

and the state of the states

a too frequent, or too plentiful application of seaweeds, fish, lime, and night soil.

ADDRESS DELIVERED TO THE WESTERN CORN WALLIS AGRICULTURAL SOCIETY.

To prove the importance of husbandry, it is searcely necessary to observe, that after the earth was formed and vegetable creation completed, it was particularly stated that there was "not a mah to till the ground,"-and that when man was made, he was placed by his Creator in the garden of Eden, and that it was his business to "dress it, and to keep it,"-and in referring to Ancient Nations we find they ascribed divine honours to those to whom they conceived themselves indebted for the invention or discovery of different branches of the art. The Kings of ancient Persia, once every month, laid aside the pomps and grandeur of state, and relinguished the luxurious banquet, to partake of the simple fare of the husbandman, affording a striking expression of the high estimation in which it was held by that people: and in modern times, a practice somewhat similar prevailed among the Chinese; the monarch annually, in the commencement of Spring, puts his own hand to the plough, and offers a solemn sacrifice to secure a favourable season and an abundant crop; and we find that the inhabitants of this Empire have acquired such skill in the business of agriculture, and have tilled their soil in such a manner as to cause it to produce food sufficient for 288 months for each square mile, and over and above this abundant quantity of food forced from the soil by good husbandry. " From the commencement of the prosent century, to the year 1830, the Ten sold by the East India Company amounted to nine hundred millions of lbs. weight, and the revenue paid to the British Exchequer, on this tea, amounted to £104,356,858 Sterling; and this extrordinary branch of trade in an innuitricious, aromatic leaf, grown on the mountains of a distant continent, employing about £400,000,000 English capital and yielding £300,000,000 annually to the English Treasury, i said still to be capable of great extension.".

Now, as the riches and prosperity of every country depends on the increase of exportation and the decrease of importation, will it not be wisdom in us to make every laudable exertion to cause our fields to increase their yield, and to this end is it not well to contribute our energy to a well conducted Agricultural Society, each individual member engaging in the pursuit of Agricultural know ledge, and agreeing to make a common sock of his aquisitions, by reporting, at a meeting of the Society, any useful discovery made in the science, by experiment or otherwise. But le us not in grasping for the few pounds of Legislative grant, forget that silver and gold, yea that which is much better, food for man and beast is distributed around our dwellings, and that within eight inches of the surface of our fields; for this let us dig and manifest a spirit of independence and enterprise.

The husbandman has, indeed, in this our Agricultural country, above all others, a right to Legislative aid, but let this be given in the defence of his rights, rather than in a grant of money ; for the husbandman, with the blessings of Providence, and the security of his rights, should be an independent man-he has a fund to draw from which the mechanic and many others have not-but ever remember that Industry is the Treasurer of this fund, and in all cases he must be applied to, or its coffers will remain closed:

I am well aware that a strong prejudice still exists against scientific, or what some have been pleased to call Book farming; but if the time has not yet arrived, it is not far distant, when this will

give way, for when the success of the scientific farmer, comes he contrasted with that of one who has patched and re-patched is stone end of the bag, in which his great grandfather carried a store to balance the bushel of wheat, the difference in favour of the former will bear down all preconceived opinion and prejudicen favour of the old practice.

There is a similarity between animal and vegetable life. Wes know something of the circulation of the blood or say of plan but as the Anatomist tells us of the functions of the animal, so the Botanist tells us of the the functions of the vegetable kingdom, their respiration, sleep, &c., and as it is not generally observed will here make a few observations on the natural heat of plants.

During the Chemical changes that take place in plants, it m not be doubted that heat is evolved or abstracted; and it is n treinely probable that plants as well as animals, have the power regulating, although in a lower degree, the excess of tempenies to which they are exposed. The snow which falls on the less and stems of living plants melts sooner than on dead matter de same kind,—an obvious proof that the temperature is hick but the heat of vegetables is sometimes so much superior to the of the atmosphere at to be indicated by the thermometer. remarkable fact is stated by Senebier with regard to the increase temperature of the white-veined variety of the arum maculus in a certain period of its growth, when the flower was for sta hours very hot; it was perceptible from 3 or 4 o'clock is t afternoon till 11 or 12 at night, and when the temperature di air was 14 or 15 degrees of Reanmur's thermometer, the hest the plant, when it was highest, was 7 degrees above it. ħ curious fact, as is justly observed by H. Smith, in well worth attention, and may perhaps be observed in other plants.

Though this subject of vegetable heat may be considered minute to demand our particular investigation, the food with plants require is one of particular importance and demander strict attention; and with a full knowledge of the food with plants require, and an economical use of this food, it would be suit unreasonable for a man to complain of a naturally fertile with coming harren, as for him to complain of his cows starving very he had plenty of good hay in his barn.

To avail ourselves of the advantage of food for vegetable which we are surrounded on every hand, it is nesessary that should take into consideration the indestructibility of the put every organized body, animal or vegetable, and that, though substance, animal or vegetable, be decomposed, all its parts by ever minute, and however divided or subdivided, still make M au essentially the same, and remaining the same, are fully calculated (if those parts come together again in their proper proportion) form an animal or vegetable of the same kind as in its firstor This being the case, let us particularly improve zation. sThe important point - and when the parts of any animal or reget por substance are passing off under the action of fermentation, c bustion, or the like, let us make use of means to retain then the so to store them up, as that they may main ou use and plants, and by this means, those parts may again become organized to the sheard are should, as a rodu so to store them up, as that they may again be used as food and form a useful vegetable; and to this end we should, are food as possible, preserve our manure heaps from becoming blesder in for as the food of plants is chiefly in a liquid or gaseous the interior much of this food is carried off and goes to waste, by the waren of rains, the rays of the sun, and the action of the atmosphere as Agricola justly observes, "a skilful agriculturist would no really think of allowing a violent fermentation to be going on the dung hill, unmixed with earth or other matter, to fix and the

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See Mechanic & Farmer, No. 38, Vol. 5.

degreeous element, than the distiller would suffer his apparatus ube set to work without surmounting his still with the worm, to sol and condense the rarifled spirit which ascends in evaporation.

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Correspondent of the American Agriculturist. A MARYLAND FARM.

But to the main subject of my letter, instead of a homily on 1 the principles and habits In a brief journey to the seat of Go-moment, last June, when arrived at Baltimore, I made a diversion ,15 hom my route, to visit a gentleman located near the Ohio railroad, isout thirty miles west of the city, and to view his fine estate, and whis herd of beautiful Devon cattle, for the care of which he has ing been celebrated. I found him on his farm of some seventeen a eighteen hundred acres of fine rolling land, a garden amidst a and cropping of corn, wheat, and tobacco, but of good natural soil HUÊ ad capabilities. Here, retired upon his estate, with a plain yet bentifully-situated dwelling and outbuildings, and all the necesпē ding. ary appliances for a gentleman of wealth, education, and leisure. keems one of the most valuable in the country; and from a modition which, when he first began its cultivation, was sterile, im over his fine domain, and nover have I been more pleased and astructed. As this is a full and successful illustration of what cosessing no resources of fertility, other than the muck of swamp. Inder, occasionally interspersed among the woods and waste lands iś of the estate. After thoroughly examining the soil, which was find to be of various kinds, but chiefly a loose friable carth, based -16 maclay bottom, with occasional tracts of still clay on the surface, " Supurchased a limestone quarry a dozen miles distance on the subroad, erected two largo kilns at the deput near his estate, and reat vigorously to work in getting out the stone, roading it to his las, and burning it. This material, delivered on the farm, costs l sto shape, and the quick lime applied at once upon the land, in suntities of from fifty to two hundred bushels to the acre, no sutter at what season of the year. When the lime was ready it su applied, by dropping it in heaps of five or six bushels each, ed as sufficiently slacked by the weather, carefully spread on the sil. A great part of the land was so sterile that it had no soil

you it, and was sadly disfigured with gulleys made by the washing the rains In such fields as ind a tolerable sod of grass, a whit dressing of barn or stable manuro was obtained and applied with the lime, which being ploughed became at once productive; at where no manure was placed in aid of the lime, it was left insuched to dissolvo with the rains and snow, and incorporate as suit might with the soil. Under this latter process the soil beame gradually grassed over, and in two to four years, a fine coat ative blue grass (poa pratensis), and white clover (trifolium pess), allording beautiful succulent pasture, covered the ground Theo this grass coating is accomplished, the land is in proper addition for cropping, and, with a thorough ploughing, yields suadently of all the grains and grasses grown in this climate. There there is no vegetable matter in the soil for the lime to act por, I conceive the lime must have drawn most of the fertilizing utter from the air, condensing the ammonia therein contained, thich is brought to it by the snows and rains. Of course all that thus procured, is so much added to one's wealth by a very adcrate outlay. It also seems to predispose the materials of the roduce vegetation when in no condition to do so before.

In ranging over the estate, we exan 'red particularly the land, on fields limed years ago, and in the sellness of their production, pthose yet white with its recent application, and just looking ren with the fresh verdure of the young grass. One field conpield forty bushels to the acre. Another, of seventy acres, was rely planted in Indian corn, and had a fine chocolate colored al; which had produced its sixty and seventy bushels per acre at cat fields looked rank and fresh, and the grass lots for hay try. In the pasture with this young bull were eighteen or twenty

were, many of them, thus early, lodging with the over-growth of their burdens. Such timothy and clover, and such orchard-grass meadows, are rare in that region. In short, by the application of line in this manner, or without the aid of stable manures, all the cultivated iande were teeming with abundance. Hundreds of acres thus limed for years, now in beautiful pastures, had been untouched by the plough, and were grazed by herds of cattle, sheep, and horses, ribiting in its lexuriance. Eleven hundred acres had thus been limed, and new fields were welting for this fertilising stimulant, still in the process of application. I saw large tracts of land so sterile that no vegetation grew upon it, not even grass or weeds, separated only by a fence from those bearing the richest herbage. One had been limed-the other not.

I had never seen a specimen of agricultural improvement which had pleased or interested me more than this; and when, in addition to this teeming abundance, all the appliances of rural luxury and independence, buildings, orchards, groves, and delightful scenery, were added, the picture was full to admiration. Yet all this beauty, fertility, and abundance, was created by the simple application of scientific principles, with the aid of moneyed capital, wy appliances for B grantenant of we can be state, until it has to this body of otherwise mert and increased and blamed him what for many years lived and improved his estate, until it has to this body of otherwise mert and feered, ridiculed, and blamed him I for thus squande ing, as they termed it, his money on such worthter out, and almost worthless. I spent a day in rambling with less experiments but the result has equalled his warmest anticipations, and he has now the tolid pleasure of locking at an estate, which, when he took procession of it, was absolutely worthlers in tay be done in most all our Atlantic states, in the improvement of tits income, and not saleable at five dollars the acre, now worth readown soils, I trust I shall be occured for giving it somewhat | eighty or a hundred In addition to this improvement of the soil, the detail. When the proprietor first located on his farm it was ten or a dozen miles of dumble and substantial post-and rail fences the minely unproductive; yielding no crops, giving no manuces, and of chestnut and cedar have been built, separating the farm into large and convenient fields, with commodious lanes and entrances leading from the mansion-house and farm buildings Ample hay and grain burns are creeted in many of the enclosures, for securing the orops and feeding the stock : and altogether this may be termed a pattern farm of the highest order.

The question may naturally enough here be asked, how should this remarkable improvement occur in this country, and by one who was not bred a practical farmer? The answer is a simple and easy one : by the application of right principles to sgricultural an average twenty conts a bushel The bushes and stranggling improvement. This gentleman possessed education, enlarged and reads were made into fuel, the fields were squared out and put intelligent views of agricultural improvement, had travelled exintelligent views of agricultural improvement, had travelled ex-tensively abroad, and profited by his foreign observations : and after returning to his native state, instead of slothfully sitting down in idleness and inglorious ease, at once applied himself so the improvement of his property, and in giving an example to his fellowcitizens of incalculable value. And yet millions of acres, in that fine region, now yielding little or no income, might, by a very moderate outlay of capital, be made equally productive. But more of this hereafter.

DEVON CATTLE.

By far the best and most perfect breed of Devons I ever saw t kept on his extate The or ginals of these fine animals were im-imported about the year 1819, as a present from the late Earl of Leicester, then Mr. Coke, of Holkam, England. to Messrs. Patterson and Caton, two distinguished gentlemen of Baltimore. Net being practical agriculturists, these choice animals met with indifferent treatment in their breeding, and for many years were neglected among the stock of their farms. But falling some years ago tato the hands of their present proprietor, who readily saw their value for the locality and soil of his estate, he imported from Mr. Bloomfield (a principal tenant of Lord Leicester, and indeed the real breeder of the fine Devon stock, for which his Nor olk estate has become so celebrated) a most valuable buil, by which his stock was in a few years brought up to a standard, excelled probably by few herds of Devon cattle in England, and certainly by not e in this country. A year and a half ago he made another importation of a two-year-old bull, certainly the most perfect of his kind, in symmetry and good points, that I ever saw. To a size abundanily large for all purposes of Devon stock, he united a fineness of touch, a delicacy of limb, and a vigor of constitution, such as I had not before imagined could belong to this ancient family of stock. In truth such a Devon I never saw! His color deep mahogany, with a beautiful rich yellow ring round the eye, and the elegant slender white horn ! All my prejudices against it o Devons as "pretty little cattle enough," were dissipated, and I at once acknowledged their value for the lighter soils of our coun-

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thorough-bred cows, large and beautiful; all a deep malogany color, and hardly to be distinguished from each other, so much in shape word they alike. Their udders were large, with five silky handling and genteel taper tests and indicating by appearance good miking qualities. This their proprietor assured me they possessed in fully an equal degree to the common cows of our country, and probably superior. In another field were a score or two of thrifty young steers and heifers, the produce of the cows, and near by a home lot with a number of calves of the present year.

I need hardly say, after thus expressing my admiration, that before I left, I purchased three or four select young animals of this valuable herd, which, with those I before possessed, will I trust, in a few years, give me a herd of Devons equal to any other to be found. For general cattle purposes I advocate the Short-horns. They are, all in all, the first cattle. But there is a very general and, in my opinion, obstinate prejudice in our country, particularly among the northern people and their des-cendants, for red entile, especially red oxen; and your true New England men, when they work oven together, would as soon be seen driving a mule and a goat together, as a pair of roan or spotted cattle. No-red is the color, and red they will have, and red they shall have, if I can aid them to it ; and no other breed gives it in such deep, rich, unalloyed luxury as the Devons. This breed has sufficient size for working cattle, and in beauty of form Is perfect.

Here, too I discovered several specimens of beautiful South Down Sheep, from the select imported flock of Mr. Rotch, o Otsego. Some fine blood mares and colts, to which has been added one of my thorough bred marcs of the Barefoot stock, now in foal to Bellounder. Even the barn door fowls of the place were of choice and selected stock, being a cross of the large Bucks county fowl of Pennsylvania and the game breed; and they now rejuice in the acquisition of some nice young Dorkings.

But I weary your patience. To say that I was charmed, do lighted, and exceedingly instructed, by my visit to this luxuriant retreat, and much indebted to the refined hospitality of my esteemed host, would be barely common place. A proper delicacy for- or shear two sheep, where it was expected one would be sufficient was bids any saying more, and I would hardly have gone so much into for though we might live, and live well, on the products of work detail, but for the raro and profitable example of highly improved ogriculture here represented.

Black Rock, 1843.

L. F. ALLEN.

From the New England Farmer. THE TIMES.

That a singular condition of things is existing in the United States at the pressent time, is obvious to every one at all acquain ted with the affairs of the country. With general health unex ampled; with peace uninterrupted; with granarics overflowing; the cry of hard times comes up from every part of our broad country, mingling with complaints, murmurs, and execrations. varied as the causes supposed to produce the evils under which we are suffering. The r anufacturer has stopped his spindles, because his sales would hardly procure the oil required by his machinery. The merchant has laid up his ships, because there was no demand for exports, and imports could not be sold. The farmer has stop ped his plough, because his granaries are already full, and because his products have fallen so low that the prices will not pay the cost of production. There are thousands of respectable farmers in our country, whose crops, the last year were good, that find themselves on the wrong side of the balance sheet, after taxes; and wear and tear are deducted. These are facts, and they are serious ones

But while there is a difference as to some of the causes that have operated so unfavorably, there are others respecting which it would seem there can be little room for discussion. Such a cause in our view, is the general state of indebtedness, in which the individual, the States, and the government are found. There is no need of quarrelling about the cause of this indebtedness now, though we believe there is a fearful responsibility resting on those through whose management this state of things exists. The debt tending to that point, the man who is free from debt, will encour

exists, the farmer owes, professional men owe, states are bankrup! and the general government has not escaped the shame or crimin a dobt. " Brethren," said a preacher one day in our heaving when discoursing on that knottlest of metaphysical subjects, the introduction of sin into the universe-" Brethren, there is no ve in spending our time in conjectures as to the manner in whichsia came into the universe ; it is here, and it is our business to got work in carnest, and get it out as soon as possible." So with ea debits; they are contracted, they are here, and wrangling about them is of no use; the only way is to go to work with steed nerves and strong hands and wipe them out as soon as we can, ad then look out for the future.

The great cause of the distress now existing in our country, to be found in our indebtedness. This is the millstone that barn on the neck of honest industry, the incubus that chills the life blood and stilles the breath of enterprise. Prices are low, ad they must be low in a healthy state of things, while the woll all remains in its present condition. The millions of Europe has converted their swords into plow shares, and instead of slaughter ing one another, are employed in sowing and reaping. As paducers multiply, prices must decline, industry will be turned ing new channels, and as these are occupied the same resulfs will env, the the prices of labour will fall, and all things will gradually find the true level. All will see that this would be well enough, were the not for the fact that too many of us owe. And the debts too wa contracted in times when the products of the soil were at least 14 P cent higher than they now are. Here is the true search of the existing distress, the cause of the hard times of which we can the existing distress, the cause of the hard times of which we way in plant. We must grow two bushels of wheat, or fatten two pigment or shear two sheep, where it was expected one would be sufficient and farms at present prices, it requires double the labour to pay and I debts it formerly did, or would at the time they were contracted. Ani

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But it is said by some, there is no necessity of hard times, simple are because farm products have declined in prices; and there has necessary connection between low prices in grain, and grant id, distress in a country. This might be true, were it not far cash indebtedness; but now the effect is as sure to follow the caue, r night is to succeed day. If the merchant, or the mechanic, of the peets the farmer to purchase as much of them as formerly, better must be mistaken Nothing short of the grossest infature It could induce him to continue his purchases, while his means be act, lessened one half. No, the old coat must be neatly brushedne mended ; the number of dresses must be reduced to suit the une the order for the new carriage is countermanded; and the solar lichairs about which there had been some talk, it is mutually special 511) i to forget. Thus when the farmer is forced to retrench, theid felt in every quarter, for he is the great producer, and the great the purchaser of the country.

Trade is stagnant because the supply exceeds the demut prices have fallen to the specie standard ; and when by patientia C. and persevering industry the producers of wealth have paid the debts and the debts of the States, which must ultimately come for their earnings, times in which less distress will be felt, may expected. And the times will improve exactly in proportion Fre this point of freedom from indebtedness is approached. There bea not the least use or necessity for the farmers being dishearted The times may demand prudence and economy : they certify abc out require energy and industry. The circle of prices do not yet er 1 respond; but when once this point is reached, and matters are

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put. It remains to be seen, by the use which we make of them. whether the price is too great, -Alb Calt.

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From the British American Cultivator.

TO THE EDITOR OF THE BRITISH AMERICAN CULTIVATOR. Sir,-I transmit you a copy of a Petition to the two Houses of Legislature, which was unanimously adopted at the Annual meeting of this township, and as a fitting illustration of the evila of [303, 4201 Virginia, 1,260,736. Č.

which it complains, I will mention a case of recent occurrence. The week before last, a large drove of oxen, containing, at least, l arraty head, were brought over from Ohiu and driven to London. The owner endcavoured to get rid of them along the road, offering | Lendon he should be obliged to sell at a loss. Not, however, Saccing with customers, owing to the poverty of the country, he proceeded to London and disposed of them. On his return he set with one of the persons to whom he had previously offered his aboice of the Grove at the above mentioned price, and a conversaшĒ Sion took place; in which the drover stated that he had done for the lot : and all he had paid for them was \$5 11 each. "And," ail he, shaking his valise "I have got the price of them here, in recie, for which I can buy as many more as I choose, and at any I. pice I have a mind to offer; and I shall be back here with another ÷.

ip has which, on the other side of the lines, only cost him six 6 Sats a bushel I rs:

I will not repeat some other prices at which he stated various Inicles could be purchased in the States for specie, as they are so aredibly low that the very mention of them might subject me to e imputation of making a case. But, I will simply ask our leblators, millers, and carriers, upon what principle of fairness or alicy are the people (i. e. the farmers) of this country to be made low sufferers with the victims of that over driven and fictitious freis of which the Americans are now enduring.

It is to be hoped that by a constitutional combination of moral espparent, the vital interest of the country is involved.

ill shortly again address you, or through you my brother-farmers, | had not patience enough to strip the cow very clean. his important topic.

> I ramain, Sir, Your obedient servant, F. JONES.

Carradoc, 14th February, 1843.

AGRICULTURAL STATISTICS

From an examination of the Marshall's returns at the last Uni-States Census, it appears-That the State of Ohio raised more beat than any other State in the Union-exceeding Pennsylvania about 8,000,000 bushels: and Pennsylvania exceeds New York out 2,000,000 bushels; Virginnia, about 1.500,000 less than w York. New York, however, exceeds Pennsylvania in Ryc, te than 2,000,000 bushels-Buckwheat, 300,000 bushels- be worked easiest to the milker. They should also bear the left

to the whatever. It is eaid that bought wit is the best, if not, Barley, 2.200.000 bushels-Potatoes, 21,000,000 bushels-Wool, booght too dear. A terrible price this country has paul for the 1.000,000 lbs.-IIay, nearly 2,000,000 tons-Sugar, over 8,000,lesons in political economy we have received within a few years 1000 pounds, and products of the dairy, upwards of \$3.000,000. The State of Tennesse raised 42,600,000 bushels of Corn, exceeding any other State in the union, North Carolina, 34.500,-000-Virginia, 34,000,000-Illinois, 28,000,000-Michigan, 22,-000-Alabama, 18,000.000,

> Of neat Cattle, New York porsesses 2,642,433 ; Pennsylvania 1.140,418; Ohio, 1.008.313. Of Sheep, New York has 5,381,-2251 Pennsylvania, 3.396,431; Ohio, 1,963,9571 Vermont, I,-

> In the products of the Orchard, New York and Vermont have nearly double the amount of any other State-the former being to the amount of \$1,737,357; the latter \$1,109,287.

There are many other items which we intend to give hereafter. them at \$10 a head's as he said he was afraid when he arrived in | The resources of our country are abundant. If our citizens will only enconomize-purchase no more foreign articles than are absultuely necessary for their wants-the time will soon arrive, when the pressure which is so heardy felt, will pass away. We must return to a system of economy in every department of life. Frugality and industry are absolutely necessarily to the prosperity of this country We must learn to live more within ourselves, if better than he had expected, for that he had obtained 201 a head I we would be prepared for exigencies, such as we now witness .--Central New York Farmer.

MILKING.

Cows that are milked quick and stripped clean will give more sees in a few weeks." Being asked if the expense of driving did wilk than if they were managed by moderate milkers. The stat up the profit, he said, " No, for he fed them principally on reason is, that whatever milk is left in the udder dries up, and a cow will shrink in her milk permanently in proportion to the quantity that is allowed to dry up. If half dries up, she will soon be reduced to half her natural flow of milk; just as she will dry totally up if her milking is totally neglected.

When a milker approaches the cow, the animal is said to " give down" her milk. From that moment it should be withdrawn as rapidly as possible; the longer it, or any of it remains in the udder, the more of it begins to dry up, even during the operation of the milker. Very much depends upon rapidity and fidelity in suem of speculation, alias, go-a-headativeness, the miserable (the milker, in order to boast truly of having an excellent cow for milk. We have known cows that, in certain hands, gave enormous quantities of milk, and as soon as they were sold to a ergy and firmness the farmers will force upon the Legislature, | villager, who trusted to his hired girls to do the milking, they bee prompt and grave consideration of a subject in which, it must | gun to shrink, and soon the cows lost their reputation, and the mea of whom they were purchased were denounced as liarz, cheats, and 1 will not at present trespass further on your valuable space, but | every thing else that is bad. The secret of this faultfinding might the subject is not taken up, as I wish it may, by ablor I mus, I be traced to the girl, who either was very slow in milking, or who

If a cow was not managed aright when she had her first call, it will be almost impossible to make her great for milk as long as sho lives. The first experiment with her is a final habit. No heifer, after calving, should be trusted to inexperienced, unkind, or unfaithful hands. She should be treated gently, fed well, and milked regularly-at just such hours-and milked quickly and as long as half a dozen drops can be forced from the udder .- She should too, be milked as nearly as possible up to the time of her having the next calf. By such attention, she will be likely to prove a valuable animal-one that will give much milk, hold out long, and be manageable every way by her attendants.

Learners should be taught the art of milking on cows that are being dried out. And one of their first lessons should be to clasp aut 3,000,000 bushels-Indian Corn, 2,800,000 bushels-Oats the teat very near its extremity. This will hurt the cow least, and

arm moderately against the leg of the cow. She cannot then kick, or if she attempts it, by raising her foot, the milker will be ready to ward off and protect herself and pail from any sad consequences Thus guarded, let them make as brisk work of milking as prosible-treating the cow gently, and withdrawing all the milk faithfully, and there will be a chance for the security of two good things-a good milker and a good cow - Boston Cultientor.

WHAT A DOLLAR WILL FURCHASE IN ILLINOIS .- A subscriber at Little Wouds, says: -" I have at last succeeded in apprehending an Eastern Bill preambulating our hard currency state. With us. the enclosed is equivalent to three bushels of wheat, eight Lushels of corn, or twelve of oats-or I ewt, of beef or pork, a yearling steer, or a hecatomi of hogs. Will it pay for one year's subscription to the Cultivator, for manger my resolutions of economy and retrenchment, 1 and 1 cannot do without it. Another correspondent in Illinois, says --- "Blessed as we are with a rich soil, we cannot make money by farming, at present prices -wheat 31 to 35 cents-corn 8 to 9 cents-pork \$1,00 to \$1,60 per 100 lbs. and no money even at these low prices."

PRICKS IN INDIANA .- A letter from a correspondent in Davis" county, says .- " Pork is selling here at from \$1,00 to \$2.00 per 100 lbs .- wheat 37} cents per bushel-corn 12} cents, and other produce at similar rates, **

PRICES IN MISSOURI -Our agent at Hannibal says 1 -- Wheat is only 25 cents cash per bushel-corn, 121 cents-pork, \$1,50 per 100 lbs., and stock cheaper.'

Chouse in Honses - I was lately told by a gentleman of Prince George County, that a ten cup full of the spirits of turpentine would give instant relief to horses laboring under this disorder He added that on one occasion all the oven of two of his carts were hoven-that is, as you know, suddenly swolen by the generation of gas in the stomsch, from cating green food. The overseer expected all would die, when our informant ordered a tea-cup full of the spirits of turpentine, diffused in oil, to be given to each. The relief was in every case instantaneous and effectual, almost before he could have thought there was time to swallow. Such facts should always be communicated for wide diffusion and preservation in agricultural journals.

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Published monthly, each number containing 32 pages, royal octavo.

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Blaikie's Portable Threshing Machine

Forheil with two, three, or four horics at pleasure.

THE SUBSCRIBER begs to intimate to the Agricult community throughout Nota Sculia, and the adjoining longer, that he is prepared to receive orders for making 74-mil Machines, either portable or stationary. He believes that be justified in stating that his machines are equal in speed, if superior to kay now in use in the Colonies, or in the United Su With two horses, his machine will thresh 25 bushels of wheat hour, and a fourth more for every additional horse, when the pr is in fair working condition. With two horses it will thresh bushels of cats per hour, and a fourth more for every adding horse. The horses move in a circle of 25 feet in diameter at tate of 24 to 3 miles pet hour, and can work during the full without fatigue. The portable machines can be removed & one barn to another with case, - are easily erected and put is a ration, and are rarely subject to get out of order From the h price at which they are made, and the tapld cale they have also received, wherever they have been tried, he has reason to bee that they only require to be known to come into extensive us

Letters addressed (post paid or free) to the manufacturer, m the editor of the Mechanic & Farmer, will receive every attends THOMAS BLAIKIE

Green Hill, West River, February 1.

CERTIFICATES.

This is to certify that in December, 1841, I purchased of Mr. Thomas Blaikle's Stationary Threshing Machines, and # since that time by the great saving of time and labour result from the use of it, it has amply repaid me for the use of it, 3, therefore confidently recommend these machines to every fam who may require such an article; and will venture to assure a person that if they purchase one they will never have reason tos gtet it, as an unprofitable investment of capital.

GRUBOR MCDONALS

West River, January, 1843.

Having worked for some time with one of Mr B'sikie's The ing Machines, with moving horse power, would recommend it a superior article, and are certain, that no farmer could make a ter investment than to supply himself with a machine of thisk

SAMUEL FRASES JOHN FRASER

New Glasgow, Jaunary 3, 1843.

I have had Messrs. Frasers' Threshing Machine, made by I Thomas Blaskie, threshing for me two or three days, and found to surpass my expectations. It done the work well, and three clean; and I would recommend it as a very superior article, b It done the work well, and three as regards saving of labour and grain.

B. L. KIRKPATRICL

New Glasgow, January 3, 1943.

Having witnessed the Threshing Apparatus, made by Mr. To mas Blaikie, in full operation, I give it as my decided opin that it far exceeds, in usefulness, and saving of labour, any the of a similar nature which has come under my observation, and it is preferable to any other kind used in the Province. JAMES CARMICHAEL

New Glasgow, January 3, 1843

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TITUS SMITH, EDITOR; R. NUCENT, PROPRIETOR,

Is published semi-monthly at the Massacotion Office, Half TRAMS - One copy, 5s. , Six copies, 25s. , Tuelve copies, I wenty five copies, lovs per annum - in all cases in advanted

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