CANADA



FARMER.

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MANURES.

(Continued from page 133) MANURES CONSISTING OF SALTS.

In using the term salts here, to designate a class of mannes, I wish to displants, and from this source introduced into the dung of animals. Their action, whatever be their name, has been explained. But the salts composing the second class of manures, now under consideration, are not of mineral origin.—
They are derived from the animal kingdom. The source from which they are formed is the living process of the animal body. They are animal salts. Here, ten, let us divide the second class of manures, both their base and then acid.

They are salts composing the second class of manures, both their base and then acid.

They should be cut at least two inches below the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, it must be quite a thankless service, to point out to you in detail, all the various things contained in urine. It would confuse you more than the names, ay, and hard ones too, which are given to the varieties of pears and apples. All you want to know is this, does urine comparating them is often attended with consults in the interval of the interval of the second class of manures, both their base and then acid.

They should be cut at least two inches below the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, Interval of the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, Interval of the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, Interval of the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, Interval of the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, Interval of the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, Interval of the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, Interval of the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, Interval of the surface, in order to take off all eyes and prevent their sprouting.—[Alberton, Interval of the surface, in order to take off all eyes and prevent manures, both their base and then acid it may be left out of view. The salts are will find that the few facts, which we have pointed out, relating to the food and nourishment of animals, will help us on our way, in tracing the source of these animal salts. It has been already said, that the food of animals is divided into mals at one glance:

Water Salts Ammon.

As the water becomes heated, the wax will melt, and rise to the surface—the extraneous matters, or impurities, remaining in the bag. This is a cheap and effectual method,—in fact, superior to any we have ever tried."

To Destroy Micr. And These that the food of animals is divided into water sales Animon two classes; that which does and that Cattle urine, per 100 lbs. 92.62 3.38 4. which does not contain nitrogen. All Horse domestic animals eat these classes togeth- sheep er In a few words, let us trace their Hog "course after the animal has digested Human" them. The one class goes to form fat, Now cast your eye carefully over this or to support the natural heat of the body, table, the figures at once tell you the vaand passes off by the skin in sweat, or in the of these different liquids. The last moisture of the breath, and all its excess column gives the true value. The other or undigested part goes off in dung. The salts vary much in quantity, and this aftercess of nitrogenous food, all that not firsts the quality. The actual amount of required for reparing the daily waste of ammonis in human urine and cattle dung the body, or to increase its growth, also is about the same; yet in actual practice passes off in dung, as excrement. This is it is found the effects of urine are nearly a small portion, and its effects on the double those of dung. Look now for the strength of dung have been pointed out, reason of this; in the first place, the prin-But the wear and tear, as we may call it, ciple which gives ammonia in utine runs of the flesh and blood, the parts which at once by putrefaction into that state.are daily and constantly thrown out of It gives nothing else; whereas in dung, the body, as excretions, or old materials, the ammonia arises from a slower decay, enter the circulation, and pass out of the and the principle which here affords ambody in urine. This is the point to monia may, and without doubt does, form which I wou'd call your attention. The undigested food, and the excrements not containing nitrogen, go off in dung.

The containing nitrogen, go off in dung.

The containing nitrogen, go off in dung. food and the spent parts of the body, con. effects of the liquid is, that it contains betaining nitrogen, go off in urine. This sides its ammonia, a far greater amount taining nitrogen, go off in urine. This sides its ammonia, a rar greater amount last, too, is the course of most alkaline of salts, and these give a more permanent salts taken into the body. They pass off effect. The amount of salts in human, in urine. Here, then, we come to the subject quite prepared to understand it in every hundred. While the urine of salts some the salts same to the salts some to the course salts and the course salts are salts. The urine is a collection of salts, some the same animals contains nearly six are of mineral, others of animal origin.
But that which gives the urine its peculiar and characteristic properties, is a substance formed from the introgenous food, sults, which are composed of soda potash, and termed these. Now you need hardly lime, &c., united to an acid formed from trouble yourself to remember this new urea, in the animal body. This acid is name; all I want you to understand about like the acid of saltpetre; it is a nourisher it is, that when urine is exposed to air it rots, and this peculiar substance is changed to ammonia. That is the point to be In considering urine, remembered. therefore, as a manure, it will not be necessary to point out further the mode of its action, than to refer that of every animal, to its salts and power of forming annually without annual sowing of seed, ammonia. The quality of the last will be in proportion to the quantity of urea,

perceive that the chiefest things to be to grow and be cut in the ordinary mantegurded in urme, are, first, the circum- ner. The next year it ripens earlier and has come to aid, and does the work so stances which affect the quality and quan-lears more abundantly than wheat treat-tity. Second, the best mode of promo-ed in the ordinary manner. It is manured done by hand, that the getting out of a tinguish between these and mineral matter time a change of urine to acquired for the process, and and in spring cleared from weeds. In small affair. the time required for the process, and fourth, the best mode of preserving the salts whose action in cow dung we have already considered. They are truly mineral sults, derived from the mineral kingdom, entering into and fouring a part of plants, and from this source introduced into the dung of animals. Their action,

acting as noutishers of plants, and into like those in the solid dung, mineral salts, water, and suspend it over a slow fire. mineral salts. Here again reader, you and then we have the peculiar principle. As the water becomes heated, the wax will find that the few facts, which we men, which, for all practical purposes will melt, and rise to the surface—the ex-

91.00 5.03 .70 1.20 2.80 96. 92 60 1.76 56.4 95.75 1.8S 2.36

of plants, as much so as is carbonic acid.

INTERESTING DISCOVERY IN WHEAT CULTURE.-In the Schnellpost of Tuesday we find an account of a method of compelling the wheat plant to become perennial, like grass, and to perfect its grain which has been successfully practised at Constance, in Germany. It was discov-

this is impressed on your mind, you will is used as hay. The plant is then allowed grain into market in the fall if threshed

ing recipe:"Tie the comb in a linen or woolen bag; place it in a kettle filted with cold

To DESTROY MICE AND RATS.-These are troublesome varmints, and we have effective; - Take equal quantities of powdered oatmeal, and unslacked lime; mix them thoroughly without moistening, and put a small quantity in the holes and

Test or Pune Tea.—Make your tea as usual, then pour off the first, filling up with water, and instead of replemshing the teapot, for a second cup, turn out the leaves on a plate. If they are the real tea, they will retain their usual colour, but if they are sloe or ash, or any other such production, the false colouring matter will have been carried off in the water, and the leaves will remain quite black. In our present cheap tea days, it becomes necessary for our good house--[N. Y. Mechanic.

The following glance at some of the

pinted crotchet stick of the andifference effected by improvement in ture generally, the last thirty years is equal to fifty per IMPROVED P

There are other salts of ammonia in urine, and also mineral salts. These affect but little the value of urine as a manure.

It is the urea, essence of urine, that substance which forms ammonian totting urine, which alone makes this liquid more urine, which alone makes this liquid more valuable than dung. Hence, reader, if cral times in the season, and the product ject alone, would not be able to bring his breeding and in the pork made, between the round, fat, beautiful, bentiful, bentiful, bertshire, and the thin, lean, long-nosed, and long-legged, houndlike creature, which seems more fitted for the chase spring. But it may be safely asserted than the sty. The farmer feels the difference in his corn crib, and still more in force of the farm, if devoted to that object alone, would not be able to bring his breeding and in the pork made, between

by hand. Hence the threshing machine much better and quicker than it can be

THE HORSE RAKE .- With this instrument, on land fitted as meadows always should be, one man and a horse will do the work of six men with hand rakes. The value of this labor saving machine will not be disputed by those who have below the surface, in order to cake off all tested its power when time presses, or ever and prevent their smouting.—[A], storms lower over the hay field. It is not less valuable as a gleaner in the wheat and barley stubble, where no care can prevent a quantity of grain being left, surprising to one who has never glean-ed with the horse rake.

AGRICULTURAL ASSOCIATIONS .- The splendid agricultural improvements now here and there exhibited, are the results of Agricultural Journals and Agricultural Associations, where enterprising individuals meet periodically, and, by emerchanging their ideas, increase the general stock, in appleast the compound ratio of their nu sijers; each one returns home with the knowledge possessed by the whole, and with a commensurate stock of new suggestions for future experiment and reflection. The spontaneous operations of the human mind in an unassisted state, require ages to arrive at recently found the following prescription results which the united efforts of numerous individuals, excited by emulation would produce in, perhaps, a few days. Most other employments lead to associaciation, while the farmer remains in an places infested by the animals. They isolated state, scarcely regarding the will "leave."—[Maine Farmer. operations of his neighbour. operations of his neighbour.

Agricultural Associations of this and other states have already effected wonders, and these wonders are now becoming the joint stock of the Agricultural Society of this State, which has been got up by the unremitting and persevering exertions of a few gentlemen, who have thereby conferred lasting benefits upon their countrymen.

Indian Conn-The benefits of skillful cul ivation are shown in the improvement of the corn, as much perhaps as in wives to look sharp into cause and effect. any other way. A crop of seventy-five bushels per acre is now as common as fifty was a few years ago; and there can be little doubt that 100 bushels per acre IMPROVEMENTS IN AGRICUL- are now oftener reached than were 70 at TURE. i that period.

WEIGHT OF CATTLE.-The records of improvements which have been made in the Smithfield market, in London, proves agriculture within the last fifty years, is that within one hundred years, the avefrom the pen of Alexander Walsh, Esq. rage weight of the cattle killed for that THE PLOW.—In this implement the market has nearly doubled, rising from advance within the last thirty years has between four and five hundred to be-been astonishing. There is scarcely less tween seven and eight hundred, and the difference between the neat cast iron greater part of this increase has been in plow of the present time and the clumsy the last forty years. It is calculated that wooden article used for the purpose at the cattle offered at the Brighton Marthat period, than between that and the ket near Boston, average at least fifty cients. In the case of working and the years since. This improvement we effects produced on the soil, every man owe to the knowledge brought to bear competent to judge will admit that the on the breeding of cattle, and agricul-

IMPROVED PIGS.—Here is an improvement which no one, however slightly ac-THRESHING MACHINE.—Experience quainted with the animal, can deny. shows that the farmer who gets out and. The dullest eye can distinguish the dif-sells his grain in autumn, admitting that, ference between the round, fat, beautiful,