

Agricultural Department.

MOLASSES FOR FATTENING BLOCK

We heard it years ago, but a paragraph in one of the agricultural papers just now brings to mind the drim that molasses is an excel-lent material for "attening farm stock. Very likely too much is claimed for its merits, but likely too much is claimed for its merits, but we have no donbt that, under certain circumstances, it pays well to feed it in small quantities. When a creature which has no organic disease, but from neglect, short keeping, or a very poer quality of food, has lost its appetite and become very thin in flesh a small quantity, fed to it daily may prove a group benefit. Molasses in also a useful article of dist when it is desirable to fatten the animals

of diet when it is desirable to fatten the animals as soon as possible.

That any one should seriously propose to feed molasses to horses, cows sheep or hogs, at first thought may seen 'diculous. But that such a course is founded upon philosophical principles, has been thoroughly tested by actual trial, and proved to be correct. Some chemists have believed that "starchy" food is converted into mean by the stomach before it. chemists have believed that "starchy" food is converted into sugar by the stomach, before it is used to mourish the body, and it is a well-known fact that pure sugar will very rapidly fatten animals to which it is fed. But for fooding to farm stock, molasses is to be preferred to sugar, because it is heaper and in better shape to be fed without waste. Not only will benefit be derived directly from the fattening 'properties of the molasses, but it will also improve the appetite and assuse the animals to which it is fed to eat more food than they otherwise would. It is essily digested, assimilated rapidly, and consequently shows its effects very soon. One writer on this subject has said that if molasses is fed to gosted, sistimilated rapidly, and consequently shows its effects very soon. One writer on this subject has said that if molasses is fed to a poor horse, he will show a marked change of condition in a few days. It is said that too much aweet, of any kind, if fed to animals, much sweet, of any kind, if fed to animals, will prevent their breeding readily. Cows which it is desired should raise calves, should not have more than a pint of reclasses per day, but to those which are being fattened, three pints may be given with good results. Probably the best way to feed it is to cut hay or clean straw, throw on a little boiling water in order to make it soft by partial steaming, then wet and thoroughly mix with water in which has molasses has been diluted. Care should be taken to mak no more water than the bay or straw will readily absorb. For hogs, the molasses may be mixed directly with their food, and it is said to produce wonderful results.

with their tood, and it is said to produce won-during results.

For this purpose there is no need of obtaining suice and expensive article. A low grade, it clean and sweet, as some of the low grades are, will answer every purpose, and be much more profitable than a high-priced brand.—

N. K. Homestood.

TESTIMONY ABOUT COOKED FEED

A.H. Prootor writes to the Ohio Farmer

A.H. Prootor writes to the Ohio Farmer that he has been taking some testimony as to the results of feeding grain in its natural and in its cooked state, and he says:

"For the last year I have travelled very extensively smotty the farmers of Ohio and Indiana, and find that this matter has attracted their serious attention. If twenty acres of corn cooked for feed is worth thirty scree fed raw, then the subject is worthy of the best judgment. For the proof of the proposition, I not only submit the testimony as given to me of hundreds who have practiced cooking corn, cats, barley, brokwheat, potatoes, roots, all kinds of ground feed, etc., but give a few proofs of the many who have, by actual tests, found that on all kinds of grain an average of one-third is saved, and on potatoes and all kinds of roots, fully three quarters. Mosers. Wilson & Bros., dairymen, of Muncie, Ind., cook ground feed for their cows, and say that since they commenced cooking the feed their cows have increased their milk fully one-third. Mr. M. Lohr, of Lichting Co., Ohio, has precioed, for a long time, cooking corn in the car for his milch cowf, and testifies the two-thirds of the corn cooked, is very much better than the whole fed raw in the much way; particularly for pign and young logs. Mr. T. J. Edge, of Indiana, saids the following experiment. Piret, shalled and fed whole: *record,

pork; the same amount of meal well cooked and fed cold made 83½ pounds. The second experiment was with new corn in two forms, viz: on the car and shelled and ground before boiling. Ten bushels on the cob made 29½ pounds of pork, fed in the usual way, on the ground. The same amount shelled, ground and cooked, made 64 pounds.

ground. The same amount snearc, ground: and cooked, made 64 pounds.

"From my own observations I find that farmers—in the localities where heg cholera prevail—who cook the feed, lose no hogs, and they assure me that if farmers would adopt it. at the same time mix in salt, copperss and sulphus, hogs would be healthy.

KEEPING POTATOES.

M. Carriere, a French writer, publishes some interesting particulars regarding the preservation of potatoes during the winter and spring. The makeds usually employed he characterizes as both good and bad; good, because the atmosphere of cellars or pits is usually damp enough to prevent the too-spoedy evaporation of water from the tubers, and bad, because the cellars are almost invariably kept closed, so that occasionally the temperature rises considerably and induces the very evil most to be avoided, namely, the sprouting cut of buds. In storing potatoes for seed a culinary purposes, the main object in view is to prevent their germination, so that it may not be necessary to pick but the budding eyes, a process which invariably indeces a rapid deterioration in quality and strength. To prevent this the store-places should be wholesome, dry, and freely ventuated. In extremely cold weather the temperature must be raised by artificial means, but an excess of warmth is to be carefully guarded against: it is sufficient to keep the temperature just above freezing point, the arrival of which may be proved, in the absence of a thermometer, by the appearance of ice on a shallow pan of water purposely kept in the case of potatoes intended for planting out, but where they are required for domestic consumption the further precaution must be taken of shielding them from the action of light. If this be not dore, the tubers are apt to turn green, a change which is nothing to their detriment for seeding purposes, but which is attended by chemical alterations that the the time that the state of the other actions of their detriment for seeding purposes, but which is attended by chemical alterations that the the time that the soliton of the content of the content of the content of the process of the content of to turn green, a change which is nothing to their detriment for seeding purposes, but which is attended by chemical alterations that give them a bitter taste, and quite spoils tham for domestic use. By attantion to these nointa. M. Carriero has succeeded in keeping points, M. Carriers has succeeded in keeping old potatoes in good palatable condition up to the middle of June, or sometimes, as in the present year, to the middle of July, by which date the new potatoes are no longer scarce, dear, and tasteful, as is the case at the time the old stock usually goes out.—N. Y. Observer.

WHEAT GROWING.

At a meeting of the Central New York Fermers' Club, held at Utles, Dec. 1st, Mr. John Osborn, of Paris Hill, told the club how he had learned to secure absolute certainty in growing wheat,—that is absolute certainty inguinat complete failure. His method is to plow good cluber sod as seen after haying as possible—(between the first and filternih of Anomet Laborate 1 possible—(essweet the first and niterals of August) subsoil-plowing, to a depth or six or eight inches; pulverire the soil as thoroughly as possible until the last week in August, and apply manure evenly, working it completely into the soil. He stated that he had never apply manure evenly, working it completely into the soil. He stated that he had nover suffered entire failure when he purmed this plan, though of course the yield was better some years than others. A somewhat different plan though be eraployed to produce an extreme crop, all things being favorable. To do this, instead of plowing the sward, he would plow land which had been under cultivation the preceding year, or which had yielded crops of sowed corn. He recommended nature having much ammonia, and cantioned his hearers against applying an excess of manure, thus causing the wheat to ledge. He was in favor of sowing as deep as three inches, to prevent unboaval, and he preferred broadcast sowing. He would never plow more than cace, are would be summer-failow. He was especially sitemators of mings the winter. Some means should be supplyed to collect a covering clanow. Rust and blight are caused by partial white-killing more than any other thing. He had hied an experiment with a view of discovering a method of protection. He planted owe has wheat failed. This way done because the preventing winds are protection. He planted owe has preventing winds are protection. practiced, for a long time, cooking own in the care could are careful and any other careful in thing. Mr. T. Middle as of Union. On this ment are the careful in the core cooked, is very much better that the soluble for raw in the ment way; particularly for right and young and young long. Mr. T. It is the ment way; particularly for right and young and young long. Mr. T. It is the content of the core cooked, is very much better than the soluble for raw in the ment way; particularly for right and young and young long. Mr. T. It is the ment way; particularly for right and young and young long. Mr. T. It is the ment way; particularly for right and made into slop, with bulk water; and third, ground and therefore young in the prevention in the prevention of the right of the right of the prevention of the prevention of the right of the ground in a markle mortan than the soluble for raw in the ment was a prevent all the ground is covered with anough the prevention of the section of the prevention of the section of the right of the ground and the whisk and the soluble to red section that the ground is covered with anough the prevention of the section of the ground and the whisk and the soluble to red section that the soluble the ground is an arbite mortan to the burk of small shrube of the ground and the whisk and the soluble to red section that a price of section of the prevention of the ground is covered with anough the prevent all the ground is covered with anough the price that the covered with a price throughly dend, and then rolled in the prevention of the

able preparation for wheat-sowing in the fall. To kill quack he would summer-fallow thoroughly.

ENGLIER SPARROWS.—H. Mointire, Ala., asks what the English sparrow could do in ridding them of the "cotton caterpillar." The sparrows are domestic birds, and live around dwellings. They require houses, or if building, a dense growth of 123 or a thatch afford convenient places, they will build their nests in these. They have about three broads a year, and as they feed their young on animal food, the number of insects they destroy is very great. So far, all is in their favor, but the old birds do not live entirely, if largely, upon great. So far, all is in their favor, but the old birds do not live entirely, if largely, upon insects, and the young, when fiedged, also require other food, and they devour grain, seeds and small fruits, and in Europe do so much mischief that they are classed among the pests. They do not edgrate, but remain all the year round, and when there is much smow they must be fed. In Europe they are charged with attacking and destroying the buds of they must be fed. In Europe way, the buds of with attacking and destroying the buds of fruit and other trees, this might be prevented by supplying them with food and water. by supplying them European farmers wi mers who regard them as a nuis European farmers who regard them as a nuisance strive to reduce their numbers by destroying their nests, and do not take into account the good they may do early in the season. Having both sides of the question in brief, you can adje if the balance is likely to be, in your case, in favor of or against the introduction of the birds.—Agriculturist.

Mounting Fowrs.—We are accustome see the poultry left to its own unhappiness during the moulting season, and the "mastor-ly inactivity" with which the fanciers permit during the moulting season, and the "mastorly inactivity" with which the funders permit
the birds to look after themselves is almost
epidemic. The moulting season is really the
most trying to fowle, and if nature can be assisted in the process of changing the feathers
a real benefit will be done. The blood is
during the moulting period heavily drawn
from for the materials which compose the
feathers, and although birds may at the ontset be strong and healthy, the drain upon
their system is so great that they are weakened and debilitated, and their laving proclivitics are entirely abandoned. If we are able
to give as food elements which will quickly
replace the urhanted constituents of the
blood, we obviously assist in its transformation. We have found that fowls supplied
with refuse, and powdered scorched oyster with refuse, and powdered scorohed oyster shalls monit quickly, and do not lose their strength and vivacity to any perceptible degree. If their drinking water is supplied with rusty iron, all the better, and one drink

of milk each day is of great value.

House Foon.—Of the different kinds of grain, cats is peculiarly the horses food; always safe, digestible and nutritive. Barley is the bost substitute for it. Wheat and Inis the best substitute for it. Whest and the dian corn are sometimes given, but both are unsultable; the first is too concentrated, and the last is too heating. They ought to be sparingly used, and only when ground and mixed with chaff. The offal of wheat is mixed with chaff. The onar or wares an ever objectionable. Grain is always more advantageously fed when ground or crushed, and wat some time previous to exting; and it is still better when cooked. On both sides of the Mediterranean, in the Barbary states, in Spain, Frunce and Italy, much of the food is given in small baked cakes, and the saving in this way is much greater than the expense of preparing it.—Slock Journal.

Scar-Supe for Grants—A. J. Downing Says: "I have seen the Isabella grape produce 3,000 fine clusters of well-riponed fruit in a season by the liberal use of manure and sospoten the weekly wash." The effect of suds from the weekly wash." The effect of soap sads on other plants assomething surpris-ing. Oy-press vine, which had remained sta-tioners a fortnight, when about two inches bigh, immediately began growing after a good watering 7th seap-suds, and grow six inches the first five days.

Sort-Sizzan Eggs.-In the long run w have found far more success, both for our-celves and with others, from pounded raw cyster shalls, as preventire of soft-shelled eggs, t'an anything else. A little lime in the water also helps.— Fright's Poultry Book.

water also helps.—Wright's Poultry Eook.
GRODHING HORRS.—Where work horses are
worked six days in the week, thorough grooming is absolutely essential to their health
The more hiphly they are fed the more importent it is to clean them. Most men use the
curry-comb too much and the whisk and
brush too little.

tobacco is added, it will make the matter more sure. The rabbit is a clean beast, and does not relish the weed.—Christian Union.

DOMESTIC.

THE VALUE OF CONDIMENTS

By condinents we mean substances like sugar, spices, vin yar, and others that are employed to impart fiavor and piquancy to the staple foods. They are usually regarded as non-essential, and some writers on dictotics have gone so far as to condemn their use, unless in rare instances and in the most infinitesimal proportions. Tike all good things them are liable to be abused, but when properly used they are valuable elements in our daily food. Professor Voit of Manich, than whom there is no higher authority on such a subject, considers that their importance has not been sufficiently recognized. It is not enough that food should concain alimentary principles in proper quantity, to render it really nutritious there must also be a supply of condiments. These have been compared to oil in a machine, These have been compared to oil in a machine, which neither makes good the waste of markel nor supplies motive power, yet causes it to work better, they render essential service in the processes of nutrition though they are not of themselves able to prevent the waste of early part of the body. "A distary deprived of condiments, a more mixture of alimentary principles without taste or smell, is anneadurable, and causes nauses and vomiting." It is not april condiments are added to aliment that ble, and causes names and vomiting. It is not until condiment: are added to aliment that it really becomes food. Extreme hunger may enable us to dispense with them, as it may compel us to devour what at other times would be disgusting, but under ordinary circum-stances they are an essential part of our dist.

Condiments have an important influence upon the process of digestion and nutrition. The mere eight or thought of a savory dish "makes the mouth water,"—that is, 't makes the salivary glands pour out their secretion the salivary glands pour out their secretion copionaly, which is an important stage in ligestion, especially for certain articles of food. Experiments made upon dogs show that a similar effect is produced upon the gastricectain, and thus the work of digestion is further promoted. The loss of the sense of taste would be not merely a loss of cujoyment, but a positive injury to the digestive system. The very smell of food may do us good, just as certain odors will restore a person who has fainted.

It does not follow because condiments are useful, that we may not have too much of them; on the contrary, their best effect dapends upon their being used in moderation. The more decided the firvor of any article of food, the sconer does it pall upon the appetite. It is one of the peculiar merits of French cookery that flavors are so delicately blended no one is specially prominent, and yet by their no one is specially prominent, and yet by their different combinations a wonderful variety of appetizing effects is produced. We, like the amerum combinations is wonderful We, like the English, are apt to use condiments in a coarse, reckless way, and thus miss their finer and more exquisite effects, besides losing much of the benefit that might be derived. om them. By a nicer care in their employment, the plainest and simplest diet might be made at encomoro delicious and more digestible.—Jour nal of Chemistry (Boston).

MEAT BALLS.—Chop frosh mest very fine—beef, veal, mutton or chicken; beef is the nicest—roll dried bread very fine, add salt, pepper, cloves and mace, and one egg, mix this with the most. Pound all well tegether and make into balls a little larger than a hou's egg. Roll in bread crumbs and egg, and fry in hot lard. Dish with a nice gravy flavored with walnut ketchup. Any cold most prepar-ed in this way is very good.

Turker or Chicken Storfing.—Grate three sups of bread, then rub them through a colander; pick out every bit of crust, put a drop of writer to the crumbs, add a scant outful of finely che ped suct; pick out all the stringy parts. Add chopped paraley, if agreeable to all, and, if liked highly seasoned, a little sweet marjoram and summer-savery, but not unless it is known to be plussent to all who are to partake, for these herbs are injurious to many. Grate the rund of one lemon and a very little nutner; add pepper and salt. Bind all together with one or two beaten eggs.

From Proposit.—Rispub two concess of grand Turkey or Chickey Storying .- Gratathree