

Agricultural Department.
Variety in feeding.
As the result of some obsarvation, expericuce, and careful thought, 1 am strongy in-
clined to the opinion that variety in feeding is ined to the opinion that variety in feeding is
one of the essential conditions of successe, and has in fact more influence on final resulte than most farmers suspect. If this is true, the principle will hold good for all feeding; not equally in regard to the feeding of crops. If, for example, it is found expedient, when cows
are fed for milk, or steers for beef, to blend are fed for milk, or steers for beef, to blend
albumenoids and carbo-hydrates in their feed in certain proportions, it it clearly not necoesary解 entirey from cilover, or the carbonaceoue to get each of these from several sources, instead of from a single one. In like manner, if we intend to apply to a corn crop a cartain amount of nitrogen, of phosphoric acid and of potash, it is better, if we can, to obtain these several elements, each from several sources,
provided it does not make too much difference in the expense.
In fact I think we may carry this principle of variety still further and apply it to passive ss well as active manurial elements : that is $r$ divisors Erery farmer unow forsorbent hat in making a compost of bone flour, hen that in making a compost of bone tour, hen indispensable to the value and safety of such a nixture. Perhaps the absorbent most freuuently used in this case is dry earth or peat while some use pulverized charcoal and others
plaster. Now I have known cases in which plaster. Now I have known cases in which ery striking results, and $I$ am confident that an absorbent composed of all three, blended in right proportions, will, in certain cases, at

Thithout at present entering into the reasons e the teaching of observation and experience I believe it will be found that, other thing: heing equal, the greater the variety of nutri ive elements employed in feeding limer crops creater will be the certainty of the reablt, and very often the profit alko; and further, that
the most complete formula for every crop the most complete formula for every crop
as I have sald before, w111 comprise not artift ial manures exclusively, nor the different tudied combination of both
This general principle of variety in feeding and its two-fold application to animals and plants, though not at all new to our farmers is entirely too much neglected in practice, and is therefore suggested here as a subject of byfficient importance to be further developed by discursion, and tested by exp
Conrad Wilson, in Christian Union.

## THE CHECK-REIN

With a logic as defective as their humanity fome persons declare that "the check-rein
holds the horse up, if inclined to fall." How ar the instrument designed to prevent an nimal falling holds it up, which fulle
has never been satisfactorily explained. hard-mouthed by bad treatment, require a bit somewhat severe, may be conceded ; but who
in all fairness, that has geen the fearful in in all fairness, that has seen the fearful in
ventions nowadays forced into the moutbs of ventions nowadays forced into the moutbs
horses, attached to the carriages of the wealthy in;particular, will assert that they are aught If it should be the good fortune of the writer these lines to conviace one lady or gentle e will feet his labor is compensated To insure the full exercise of an animal' power in the safest and most easy way to it dinturb its natural posture. The question to decided is, whether or not it is most judiious and proper to give a horee the free use
of his head, or to prevent him from having hat use.
The pain occasioned to a horse by a tight check-rein is intense. The action of every me:overy is is rendered a fifficult. Dis iscomfor nnkes the puor animal restless. The impanot unfrequently vixited bya cut from the whip of an ignordat coachman ; the horse is called ill-tempered, when he is only miserable. Some new instrument of torture is forced into his mouth in the shape of a bit, until, with temper rud mouth both ruined, he passes into the
handy of an omibux-driver or onbman, when
his bearing. rein is cast aside, and for the firet
time he is treated with common-rense and bu manity.
It is a severe penance to any one loving a horse to witness the sufferings from this absurd and cruel practice.
nevolent lady know of the agony of the two nevolent lady know of the agony of the two noble animaly by whom she if so pleasurably
drawn along. She probably fancies that the high-prancing step, and toss of head, which high-prances
scatters flakes of foam at every step, are expressions of pride and satistaction; when, in fact, they are occasioned by
a vain effort to obtain relief.
Could these speechless sufferers answer the enquiries, Why do you continually toss your head while standing in the harness P Why do you stretch open your mouths, shake your heads, and gnash your teeth? Why do you
turn your heads back towards your sides, as if you were looking at the carriage ?-they would answer: All, all this is done having our heads kept erect and our neck bent by tight brides and galling bite.
While many of the instruments of torture applied to the horse in this country are of
foreign invention, some are the product of foreign invention, some are the product of native talent. Among the latter is one which is a strap passing from the saddle-hook along the neck, and over the head bet ween the ears,
seoured to each ring of the bit. A more gracesecuren on each ring of the bit. A more grace
lese, stupid invention could not well be concoived; and its only recommendation must be that it adds a new pain to the peor horse by pressing violently upon its brain
Listen to what the author of the "Horse in Health and Disease" says about the checkrein : "I am anxious, in this place, to add my orture, the check-rein. It is not less detritorture, the check-rein. It is not less detri-
mental to the utility of the animal than it is mental to the utility of the animal than it is
reptete with agony to him. Look at the elonreptote with agony to him. Look at the elon-
gated mouthe of the unfortunate animals thue abused-torn by the bit in their unavailing of forts to overcome this truly barbarous instrument. What produces that dreadful disease poll-evil, but the action of this cruel strap constraining the head during the violent exertions of the animal, rroducing inflammation and uloeration of the point upon which it articulates with the spine? Oh ! ye daughter of the land, think what agony you might prevent by a little thought for the dumb
who serve you so well!"-Henry Bergh.

## THE PLEASURES OF FARMING

It is a pleasure to an intelligent man to be the owner of a good farm and to carry on the
business of farming, if done properly. No other pursait is so well adapted to afford nd fresh butter and eggs, and vegetables and rrits from one's own garden and orchard, and poultry, mutton, and bacon of one ${ }^{\text {s. }}$ own rais-
ing, to live upon, is very agreeable. To see ag, to live upon, is very agreeable. To see the crops growing, the stock improving in oldee, the fait trees bearing their it generally will under wise management, af ords any good man pleasure.
But the farmer, to eujoy farming, must manage his business well. He must plan wise
ly and execute promptly.
He must be a sort f military man in this respect. He must lay the plan of his campaign at this season of the year, and carry it out as thoroughly as possi-
ble. To enjoy farming, one wants the best of everything-the best cattle, horses, sheep, and swine, and fruits and crops.
He should be ambitious to have the best and should strive for it constantly. His crops should beput in in the best manner. He should have the Deatest and best-kept meadows and pastures, the finest orchards rind gardens, and how an air of tidiness nind order, dictated by an intelligent mind.
It is not neeessary to have expensive build ings. Any, hewever cheap, if put in the proper places, ,urrounded by neat fences, and the
ground alorned by shade and forest trees, ground atorned by shade and forest trees,
will look well. The passer-by will be pleased of a happy home. The house sits bat a fow rods from the road, on a little knoll, po the water drains easily from it. Shrubbery and shade trees are planted in the yard. To the right or left of the house and a little back of it the barns and stables are built with some
system. The garden and orchard are convenient to the house and everything is arrangd in order. The farmer has taken pleasure
in forming his plans, and now takes pleasure in seeing how neatly everything looks. Hi feel the influence of these admirable arrangements. It has cost no more, or but little more, than to put up everything in a slip-shod, haphree times ar. It would sell for two or never be sold. They are sacred places. They should be made for ones'schildreer and children's
hildren. How dear are all of the associa tions of nur childhood days! Why break them? Why let atrangers intrude and de
crate places that are the holiest on earth?

If farmers wond exemte bhis rate and foresight and taste in making their farms and homes atractive, there would ise a stronger
love for country life. There is too much in. love for country life. There is coo much in.
clination among the young people for the city, clinatiou among the young people for the city,
and yearly our cities are increasing in popuand yearly our cities are increasing in popu-
lation and influence, at the expense of the ountry
Could parents see what we are compelled to qee almost daily, as we go from our country
home to our office in the city they would home to our office in the city, they would
apare no labor to endear farm-life to their sons and daughters. Could they ree the debauchery, open and notorious, incident to all cities they would ehudder. Could they sce the young men, yes, and young women, too, that parade city, streeta, bearing every evidence of vice and intemperance and degradation. that a few
weeks or months or years ago came fresh and weeks or months or years ago came fresh and
pure from country homes, and then consider pure from country homes, and then consider
that such, perhaps, may be the fate of their that such, perhap, may be the fate of their
own kith or kin, if country life is not made more attractive, would they not say it is our nore attractive, would they not aray it is our
highest duty to attach our children to farmlife, to favor innocent amusements, to patronize good books and papers and libraries, to help elevate the tone of society, to carefully consider the tastes and wishos of young people, and to give them proper direction, so that the dangerous period of youth may be passed in
safety and the rocks which have shattered the safety and the rocks which have shattered the
barks of tens of thousands of generous youth barks of tens of thousands of generous you
may be avoided in the voyage of life which all must travel? - Colman's Rural World.

An Artificial Motier.-Mr. T. B. Regers, "senamous poultry raisor at Wethersfield, has what he calls an "artificial mother" for the rearing of young chickens. He estimates that at least fifty per cent. of chickens hatched are lost by suffering from cold, by being stepped on by their mother, by cats and other animals, and in various other ways. He aloo finds that chickens to be profitahle should be hatchin nine winter. He has hatched three broods away the chickens as moon as hatched and places fresh eggs under the hen, and in this Mr. Roepers's next move was to prot chickens. invention that would take care of the chickens when hatched, and the has coustructed what he calls an "artificial mother." This is a box with two compartments, and about three feet long by two feet and a half wide. In the rear is a hid covered with wool which shuts off from the front part by a strip that can be raised on hinges. The front is protected by lattiee work, giving plenty of air and light, and on the outside are tin troughs, in which chickens can earily gat their bills into these, and when they have got their fill they cau goft and comfortable that they imagine the are under the old hen's winge. Mr. Rogers had in one of these boxes yesterday a brood of twenty-one chickens, sixteen of which were hatched last Thursday, and five on Sunday. ed perfectly at ease. He took them to the Springfield poultry show on the noon train,
where they will undonbtedly attract a pood Where they will undonbtedly attract a good
deal of attention Mr. Rogers deals exclusively in light Brahmas and thinks they are the best layers as well as the most profitable fowls for the table.-Hartford Courant.

Workina Doas--In all the German towne the dogy are utilized. They are taught to Work, and not raised to play, as in Enyland. Hitcoed to ittle carts, either in the shaits or
under the wagon, they supplement the man ones or who ouns the barp, and pull by better than all, they seem to be proud of their service. In Switzerland, dogs are Very gener-
ally used, similarly ; and scores of the lurger breeds may be seen early in the morning, at any of the larger towns, harnessed into their little milk-wagons, which they drag from door to door to the patrons of their owners, without mistaking the residences of the customers,
-performing this duty cheerfully gud as re--performing this duty eheerfully qud as re-
gularly as would a horse or a mule in the same gularly
service.

Swine Susceitible to Kind TreatmentJohn C. Dillon, farm superintendent of the Agricultural College, given, in the Plowif,
man a long account of a Chenter pig called
"Marmion" which, as Mr.D. anys, "uuder the "Marmion which, as Mr. D. Aays," under the
influence of kind treatment, developed thore faculties which swine undoubtedly possers, but Wiz., a remarkable docility, sagacity, aud affectionate regard for those, whom he louk ed on as his frieuds. He would always greet me with a gruff but cordial welcome, setmed pleared to have me open his mouth and exhiwere required, I had ouly to sav, "Come, Mrewere," and he would leave hiv mater, and foll
mion,
low me wherever T chose to lead. When killed low me wharever I chose to lead. When killed
he weighed 1,020 prunde."--

D O M ESTIC

- To-refasten the loose handles of knives and forky, make a cement o
- To preserve flowers in water, mix a little carbonate of soda in water and it will pre-
serve the flowers a fortnight. Saltpetre is zerve the
also good.
- If brooms are wet in builing suds once a week, they will becone very tough, and
will not cut a carpet, last much longer, and will not cut a carpet, last much
always sweep like a new broom.
- The best way to cook codfish is to strip it of -kin and cut it in pieces about the size of one's hand : place it in water and allow it to nimmer on the stove until it becomes tender. It alould darkens the fish, and deprives it of its flavur.
- Mert boiled for table use should be plunged at once into boiling water, as the heat contracts the outer kurface and coagulates the albumen, thns freventing the escape of the
iuices. Prepared for stock or broth, it should be plared on the fire in cold water, as then the unconfined juices are free to pass into the - Boil
- Boil one pound of bent white glue and strain very clear ; boil also four ounces of isinglass, and mix the two together : place them
on a water bath with half a pound of white sugar, and evaporate till tbe liquid is quite cut, and dried to carry in the pocket. This mucilage immediately dissolves in water, and fastens paper very firmly.
- For damp closets and cuphoards which be found to absorb the moisture and render the air pure, but o co course it is necessary to路 fully slaked. This remedy will be found usefnl which and sorage-room, the dana nit the
 contain.
- A very dusty carpet may be cleansed hy setting a pail of water out by the door, wet
the broom in it, knoek it to get off all the drops, sweep a yard or so, then wath the broom as before,and sweep again, being careful to shake all the drups off the broom, aud not sweep far at
a time. If done with care, it will clean a carpet very nicely, and you will be surprised at the quanticy of dirt in the water.

Ventilation of Cupinards.-In the anitary arrangements of houses, even for the richer clasese, the ventiation of eupboards is neg-
lected. In places let as tenements, closeta are the recaptacler for bread, and the fragments of various other kinds of food. Oiten the dirty for washiug away in these places, waiting air should be plentifully passed through su $\cdot \mathrm{h}$ corners; generally, however, there is hut The arrangement made for thix $p^{\text {mirp see. }}$ for doors ars kept closed withont uny per-
foration. There are no ventilators in the walls, and, in conequeuce those places become casey of polluted air, which, when the doors are opened, escapes over the spartnents. This
defect is visible in nearly all houses of old date; and while looking at some dwellings of recent construction it is seen that, although rooms, the cupboards are in this respect neg rooms,
lected.
Minge Pien.-Put into hot water, enongh o cover them, a beef's heart and about three pounds of accaggy beef from the neck; add
hot water from tiine to time till the beef, is entirely tender ; then remove the lid from the pot and coutinue boiling until the beef is dry. If the beef is well washed before putting over the fire it will not need skimning, ns much of the juige will rise to the top while boiling, and should not be thrown away.
When taken from the fire remove any gristly When taken from the fire remove any gristly
or stringy bits, and put the heart, ve., into a sausage-cutter or chopping-tray. Grind or chop very fine. Also mince three pounds of
beef suet ; stone aud out, but do not cbop, four pounds of raisins: wash, dry, and pick six wlicen one half-pound of citron, four ounces of candied lemon, and two ouncea of candied orange-peel. Add the grated rind of three lemons, three grated nutnege, and one ounce
of ground clover. Chop finely four qualte (after they are parcd and cored) of nice appler add one and a half quarts of good molasses and the juice of nix lemons. If one has a quan-
tity of good preserver, they form an oxcellent culmritute for the raiwins, currante, and citron. Quince marmalude, West Iudia mees, and Virvalies pears make a good combination ; or canh-apple marmalade, quince preserves, and
candied or dried cherries. Miuce-nents thus prepured will keep two monthis if clopely pheklarecs, and the whole carrefully wealed from the nir. In thix wises the applen whould be added
trom time to rimom time to time as the mince-moat id re-
quired tor use.

