# On the Farm

Hand Feeding for Small Calves.

If we start a calf out right in the first year of its life, it will ever be a profitable animal; but if we do not

It is much more profitable for the farmer to put flesh on a young calf for the market.

hand feeding.

The calf is not made to consume fact, it takes several weeks to get acquainted with grain. The only As the next to middle of the lick for a nap. is milk, and if this does not connourishment that a young calf takes tain the necessary food elements an experiment. As I came out of the calf will suffer.

only natural to suppose that it re his ears my way and expressed ceives skimmed milk, because the great astonishment in his big, cream is the one object for which round eyes. When I got very close, the cow is milked.

need not hesitate to take this fat would be doing a very poor ser if it be supplied in another and cheaper form.

desirable substitute is linseed meal. This should be boiled, or rather, he would soon fall a victim to the only scalded, in hot water and mixed with the milk as a kind of gruel for the calf

It should be fed in such quantiquire. Be sure you get the old cover of an imitation of the gruntprocess ground oil-cake. This differs from the new process in the fact that in the former the oil is pressed from the seed by hydraulic pressure, and, of course, a was poor, for the stick struck the great amount of the oil remains in ground just this side, and one end the meal.

is left after crushing the seed and greater effect than a drubbing on

to be raised by hand it is best to there was no doubt about his intenprepare a set of movable stanch- tion or ability to get out of that ions. These are quickly made from part of the country. Before I could one by four-inch lumber, and where they are movable they can be changed from place to place to suit.

Later events proved that the litthe convenience of the feeder.

After the calves are in the individual without continually being pestered by the others.

ground cornmeal in troughs or got, and rushed on without a stop boxes, they will soon form a habit or a glance to the rear. Evidently in getting her fortune told as a of taking their chop after each something was after him. I got out man has in making his."
meal and so forget about the awful the field-glass, and covered his habit of ear-sucking.

meal they should be turned out on each armed with a rifle. On their a meadow or alfalfa field to exer- approach, I learned that they were cise and they will soon begin to nib- out after a supply of fresh and tenble grass and so get extra nourish-

The main object in raising calves is to keep them continually growing. It is easier to put on a pound by law, they had made a slight of gain when they are young than when they are older.

#### The Woodlot.

A good in come may be obtained from a farm woodlot if it is properly handled. The main thing is to make it better all the time by eliminating the less valuable trees and important the little bull had gone through the hunting-season unscathed. improving the conditions so the other tres may make a better growth. Trees like elms ought always to be cut instead of trees like oak and walnut when they will serve the purpose equally well. Crooked trees make just as good firewood as straight trees. Grape vines and all similar pests injure the growth of the trees materially and it will pay big to cut them. Good management pays in wood-

### Says the Manure.

In promptly handling barnyard Chronicle. manure, the farmers can save or lose hundreds of dollars annually. A manure heap is a hotbed of bacterial activities. Some of the nitro- a flash, the important part of his gen is formed into ammonia and raiment would be immediately torn passes into the air; this is a clear off. And many were his attempts loss. Some is transformed into ni- to land his fellows in that predicatrates which are soluble. These are ment. washed out by rains and sink into the soil, or run off into the ditch; a most lucky thing for the Greek this also is a direct loss. Some is peasant—if he is not killed. Such formed by bacteria into nitrates a man, says J. C. Lawson, "may formed by bacteria into nitrates and these nitrates attacked by an- indulge a taste for idleness for the other species of bacteria which rest of his life-his neighbors will change into nitrogen, which passes into the air and is lost.

EDUCATING A MOOSE.

How He Was Trained to Keep Away From the Hunter.

On the shore of Skilak Lake, in the heart of what is perhaps the best big-game district of Alaska, there is an unusually large moose lick-a wide marshy field abounding in mineral springs. Here, Mr. George Shiras, who has contributgive him a fair, good start he will, led an article to the National Geoat best, be a worthless scrub, con- graphic Magazine on the game of suming much more feed than he will the Kenai peninsula, built a blind, ever pay for, writes Mr. Edward and spent several weeks in photographing the moose that came down boldly to the salty springs.

One of my favorite visitors, he than it is to half-feed him when he says, was a little bull moose that is young and expect to have him came at first in company with a make all the gain when he is fitted five-year-old. The latter got too much human scent one day, and Nature never intended the calf to ran off in alarm, with the other raised by hand, and we must un- trailing wonderingly behind. A few derstand the calf physical mokeup days later I saw the little bull come quite well if we wish to succeed by alone from the long point where the flies were scarce. After filling up The calf is not made to consume coarse feed when it is young in of the springs, he lay down in the

As this was the next to my last the blind, he saw me at once, but Where the calf is hand fed it is did not get up-he simply turned he rose and ran about playfully, Now, in taking away the cream, showing no concern whatever over we are taking away a very import- the human scent. After taking a ant food element-fat. But one few pictures, I concluded that I vice to leave him in this unsophisticated state of mind. It was plain For a very young calf the only he no longer feared the sight or scent of man, and that meant that party of hunters that camped half a mile down the shore.

Selecting a good-sized club, I got as close to him as possible under flew up and hit him in the pit of The new process is a product that the stomach. That probably had washing the oil out by a chemical the ribs,—however much it violated known is naphtha. This is practi- the ethics of striking below the cally a very little falue as a little falue as when his back arched like a when his back arched like a where any number of calves are scared cat. When he came down,

Later events proved that the little bull put his education to good stanchions it is an easy matter to purpose. The following day I heard the sound of a heavy splash down little fellow struggling out of a After they all have their milk they should be provided with finely blades of a water-wheel. Out he back track for a long distance, and When they have finished their I finally saw the figures of two men, der meat. They had seen in a dense cover the flanks of a small moose, and to make sure it was not a cow, the killing of which was prohibited noise to bring the head in view. The animal gave a quick glance out of the corner of one eye, and then put down the hill at top speed. Not till he was beyond rifle-shot did the glass reveal the small horns.

## STRUCK BY LIGHTNING.

Lucky Thing for Some People-Case of the Beech and Birch.

Our forefathers had many theories about lightning. According to them no one could be struck by lightning while asleep, and no tree struck by lightning could be burnt. Splinters from such a tree, diligently chewed, were an infallible cure for toothache, and were, of course, pleasanter to the taste than the dentists' forceps, says the London

And the old time schoolboy firmly believed that if he were rash enough to mention lightning directly after

To be struck by lightning is still a man, says J. C. Lawson, support him-and enjoy at the same time the reputation of being some !

thing more than human. This is an inheritance from ancient days. Artemidorus, an authority on occult matters who flourished in the time of Marcus Aurelius, commented on the fact that while a place struck by lightning had an altar erected upon it, and was thenceforth both honored and avoided, "no one who has been struck by lightning is excluded from citizenship; indeed, such a one is honored even as god." The election of Quintus Julius Eburnus to the Consulship in 116 B.C. is attributed to his having been favored thus by the gods.

Some have had physical reasons to rejoice that they had been struck by lightning. De Quatrefages mentions the case of a telegraph employee at Strassburg, who was struck senseless and remained paralyzed until the next day, but thereafter enjoyed better health than ever before. In Martinique a M. Roalde was deprived by lightning of the use of his limbs for three hours, but having previously been a man of weak health, was much stronger from that time on. Several authors refer to cases in which rheumatism was cured by lightning. And in this respect, also, trees seem to be as men. Arago saw a poplar, one of an avenue of 1,500, near Tours which, having been strcuk, developed such vigor that its trunk soon far surpassed in dimensions those of all its neighbors.

Lightning is said to differentiate between trees as well as men and women. Some years ago Mr. Mcnab, a fellow of the Botanical Society of Edinburgh, investigated into the generally received opinion that neither the beech nor the birch is ever struck by lightning. He collected information regarding lightning struck trees throughout Great Britain, and found no single instance of either of these species being struck. Investigation in North America gave similar results. He found, indeed, that in the forest regions there a beech tree was regarded as the safest place in a thunderstorm.

Ready to Quit.

Pat had been at work for three days digging a well, and as the foreman wanted it finished within the week he had promised Pat another man to help him. It was getting on to 11 o'clock and Towser, the foreman's bulldog, was looking over the object the pit when Pat said to himself, I'll have a smoke. He had filled his pipe and was about to light it, when he glanced up and beheld Towser's handsome features.

Slowly moving his pipe from his mouth, he said, "Be-e-gorra, Oi've wor-rked wid Germans and Hengarians, and Oi've worked with arm. Ooitalians, but if a man wid a face like that comes down to work beside me Oi gets up."

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town within 72 miles of London, Eng., there is carried on a flourishing industry which the world in general knows little about. This is the manufacture of bogus prehis-The toric implements and relics. workers at this trade are known as "knappers," or flint clippers, and they use the same tools and work in much the same manner as the men of the Neolithic age.

The knapper of Ely, says Harper's Weekly, finds his material ready to hand in the extensive strata of flint lying amid the chalk beneath the surface. Shafts are sunk direct to the floorstone, and from these burrows are made into the chalk. This mining is all done in the most primitive fashion, as the men, for the most part, work singly, without fear of syndicates or corners. Each has his own claim, his own workshop. often, though, he employs help in getting his wares ready for market.

The claim is about a man's length and three feet wide. Generally he digs down about 35 feet, and thence in a horizontal or slanting line, as best suits his purpose. His pick is shaped like a figure seven, and he goes down the shaft by toeholes, ascending by the same means. His workshop, like his mining, is also primitive, being a rude, cheap shed in his garden, the only fittings of which are a block of oak tree trunk, rather smaller than a butcher's block, a seat, a little stove to dry the flint, pails and some old tin

It might be supposed that flint locks went out of use about the close of the Revolutionary War, but these knappers still find the steadiest and most important branch of their industry the supplying of flints for this old-fashioned fire-

Where do these relics of bygone days go? To make muskets for the negroes in Africa. Some are shipped to South America and China. As yet there has been no decline "A woman," says an observer of in the demand. Another odd shipthe sex, "has as much excitement ment was made during the Boer War, when 14,000 tinder flints were sent to British troops so that they

could get light when wet ruined the matches.

"Remains of the Neolithic age," now to be found in many museums and private collections, were manufactured by this little community In the low country about Ely, a in England. They consider their business entirely legitimate, and in a way it is, for it is the shrewd, unscruptlous middleman who sells for a goodly price these valuable antiques to the innocent. A great many schools and public educational institutions are supplied by these knappers, and, whether the objects are known to be imitations or not, they are much more valuable than diagrams or illustrations in the teaching of history and geology.

The cooing stops with the honey-moon, but the billing goes on for-

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