The Breeder and Grazier.

The Calving of Cows.

Tue early portion of Spring is the most advantageous time for the calving of cows, and our stock farmers will now have to be on the alert in reference to this very important department of their art. A few practical hints may, therefore, not be without their interest and seasonable application.

The gestation of the cow comprises about forty or forty-one weeks, seldom varying more than a few days, appearance and state of the animals should be frequently and carefully observed. A cow about calving should be separated from the herd, and base a warm. quiet place assigned her, with dry, comfortable bedding, and a moderate supply of suitable food. A distention of the udder, the falling of the flank, and other wellknown symptoms of approaching labor, should be carefully observed, and preparations made accordingly. In our changeable climate, early spring is always more or less attended with cold, sharp winds, and serious mischief sometimes arises, both with cows and ewes, from their being exposed at so critical a time to their chiliing and debisitating influences.

When the operation of calving actually begins, then signs of uneasiness and pain appear, a little elevation of the tail is the first mark; the animal shifts about from place to place, frequently getting up and lying down, as if not knowing what to do with herself. She usually continues some time, till the natural threes or pains come on; and as these succeed each other in regular progress, the neck of the womb, or os uteri. gives way to the action of its bottom, and of its other parts. By this action the contents of the womb are pushed forward at every throe, the water bladder begins to show itself beyond the shape, and to extend till it becomes the size of a large bladder, containing several gallons; it then bursts, and its contents are discharged, consisting of the liquor amnios, in which, during gestation, the calf floats, and which now serves to lubricate the parts, and render the passage of the calf easier. After the discharge of the water, the body of the womb contracts rapidly upon the calf; in a few succeeding throes or pains, the head and teet of it, the presenting parts, are protruded externally beyond the shape. The body next descends, and in a few pains more the delivery of the calf is complete.

In natural presentations, that is, when the two fore, feet and the nose of the calf can be distinctly felt by gently inserting the band into the uterus, but little extra assistance is required. Nature, if left to herself, will, under such conditions, generally expel the fœtus. The treatment, therefore, is very simple, and the natural throes or pains should be allowed to go on without any interruption, and the result, in most instances, will be as rapid and satisfactory as is desirable. But where the water bladder breaks early in calving and before the mouth of the womb is sufficiently expanded, the process is often slow, and it is a considerable time before any part of the call makes i s appearance. In that si ua ion it will be necessary to give some assi tance, which consists in introducing the arm into the womb, and laying hold of the fore legs till they are brought into the passage gradually assisting at every pain or three; this being accomplished the rest of the business is brought early to a conclusion. As soon as the calf is brought forth, its nostriks should immediately be cleaned from the adhering mu cus, the mouth opened, and when it has breathed freely it may be carefully rubbed with a wisp, and then presented to its mother, who will at once lick it freely with her tongue, which acts both as brush and energy comb most advantageously. In a few minutes it should be lifted up, be supported, and enticed to suck. If it sucks freely very little danger is to be apprehended, and the dam and calf may be safely left toge her Warm water only should be given to the cow, and her food should be of a mild and autritions character, avoiding cold roots or the like. The calf should be left with the dam at least three days, in order that it may draw its food at first naturally, and as it is required. By this time the first milk, or "beastlings,"

acting as a gentlo purge, will have passed through its bowels, cleansing both of all mucus; it may then be safely removed and brought up by hand.

In cases of wrong presentations, the cow should be carefully examined, by inserting the bare arm as far as possible into the uterus. Upon ascertaining the position of the calf, such judicious means must be adopted to get it away in the best manner, the judgment, formed by experience, may dictate. In a pre-sentation where the hinder parts come first, the calf may occasionally be drawn away; but, generally, in such presentations, the legs are doubled backwards; it is then necessary to push the calf back into the womb or calf-bed, and, if possible, turn it, or get forward the legs, for it cannot come forth doubled up as it is; in either case it is a most difficult task to get it away and as the expiration of this period approaches, the safely, and often results in the death of both dam and calf. In extremely violent cases the womb, or callbed, will frequently protrude and fall down. This is a very difficult thing to restore, with safety, to its proper place, owing so the continued pain of the cow. It should be well washed in warm water as quickly as possible, before it has much time to swell, and, with double fists, it should be firmly pushed into the uterus. where it must be seemed by strong ligatures sewn across the opening. The cow should have a strong dose of laudanum to quiet her for some hours, so that the calf bed may have time for the swelling to sub side. Subsequently give her a little warm water, with some meal stirred in. This should be given repeatedly, but sparingly, so as not to load the stomach. No heating or any purgative drenches should be given, and everything done to keep the animal perfectly quiet. The cleansing or after-birth, usually comes away in a few hours, and generally requires but little attention. If, however, it should become necessary to draw it away after the lapse of several days, the operation re-

which the performed with much judgment and care.
When the cow has had a protracted and difficult calving time, she will require careful treatment. In common natural cases she will be soon all right; but in difficult cases, brushing of the belty and loins with a risp is said to be serviceable, and gentle walking exercise for a short time in the open air, when the weather is warm and fine. Gruel and cordial drinks may also be occasionally given. The latter may conweather is warm and time. Grief and cordin transmay also be occasionally given. The latter may consist of a quart of ale mixed with sugar or treacle, and diluted with water, and given warm. The old "cowleech's" drench is—1 oz. aniseed, powdered, 1 oz. sulphur, ditto, 1 oz liquerice, ditto, 1 oz diapen'e, ditto.

oz. long pepper, given in a quart of warm ale.
The old barbarous practice of driving a cow about white, or just before calving, is now, happily, ex-ploded, except in very benighted situations. It was ignorantly believed that such extreme exercise facilitated the operation of calving, whereas its tendency was the exact contrary, and many a valuable animal has been lost by such nureasonable and inhuman treatment. A cow in open pasture will usually leave the herd, and seek ome sequestered place for calving, an us inct which crearly points out the necessity of quiet-ness in our treatment of her at this critical period.

Milk fever, or dropping, after calving, is one of the most dangerous diseases attending partirition and un-less timely arrested, will very soon prove fatal. Cows in high condition are very liable to this complaint. previous to calving. The symptoms usually show themselves wi hin two or three days after calving, sometimes within a few hours. They are known by the cowshifting about from place to place, frequently lifting up her legs, with a wild appearance in her eye. and unless the disease is arrested she will, after a white, tagger and fall down. The usual recourse is to take three or four quarts of blood from the animal, and promote the natural evacuations by Epsom salts, of re. &c. This and other diseases, however, cannot be successfully treated, except by the merest accident by inexperienced parties, and therefore we would strongly advise our readers to employ duly qualified veterinary surgeons in all cases of serious disease whether in the cow or horse. Unfortunately, such aid is not at present available in most par's of this cour-ry; and, as our stock is rapidly increasing, in both number and quality, and, consequently, in money value, it is much to be hoped that the efforts now making by our Board of Agriculture, in imparting Veterinary instruction, will supply, by degrees, this wide-felt desideratum.

Do Animals Reason?

Do animals reason? I have no doubt that they do. That they have memory is certain. They can be instructed up to a certain point. What is called the "cun ning of the fox" is nothing but his quick sagacity. A multitude of stories-even enough to make quite a volume-could be gathered illustrating the sagacity of they cost for beef.

the elephant, the borse, the deg, and other animals. Even the stupid " as knoweth its master's crib." A fox has been known—so I have been told—to carry off a small pig. In course of his way back to the woods he had to cross a deep creek, setting up from the sea. He could jump over it himself. But could he jump over it with the pig in his mouth? That was the problem to be solved. He went off a little way and came back with a knot, a piece of broken limb, in his mouth. It was just about as heavy as his pig. "Now," says he, "if I can jump across this creek with this knot in my mouth, I also can with the pig." with this knot in my mouth, I also can with the pig."
In a moment he gave the leap and over he went. He
then laid down his knot, jumped buck again, seized
his pig, and stood a moment as if weighing and comparing the two. He hesitated but a moment, when
presto! he was over, pig and alt. Was this not reasoning and logic? Could a philosopher or a divine
have drawn a more acute inference?

A dog had been accused of killing sheep. He and
his master were very foud of each other. It was a

his master were very fond of each other. long time ere the owner could be made to believe the long time cre the owner could be made to believe the ill report about his favourite. At last he was convinced that poor Rover was guilty. As he could not bear to kill him himself, he came into the room one morning and said, "Peter, you may take the dog after breakfast and shoot him. Mind and kill him dead." The dog was in the room and beard it. In an instant he darted out of the room, and was off in a straight him. We alter a charting could consider a an instant he darted out of the room, and was off in a straight line. No alling or shouting could cause him to turn his head. Straight as an arrow he shot across the loss and went out of sight. Every hour they expected him back. At night he would certainly come. But no, he never returned! Many months after this, his master was riding in a wild, lonely place. Just as he came between the two banks through which the road had been cut, he saw poor Rover standing on one of the banks. His heart yearned towards his on one of the banks. He heart yearhed towards his old friend, and he spoke to him very kindly. But Rover's heart was hardened. He gave one growl, snapped his teeth at his old master, and again seampered off at the top of his speed. His master never saw him again! Unforgiving Rover! Thy memory was good, thy will was strong, and thine anger lasting! ing

One more example. A neighbour of mine had a very knowing cat. Of course Tab was a great favourite with all the family. At a time when Tab had a family of kittens, beautiful kittens too, and when it seemed as if it was too much for her to take when it seems as it was no much in her to take care of them, one of them was given away to a neighbour. Little kit was carried off in a basket, and warmly welcomed. In a day or two, the door being opened, in walked Mrs. Tab, who se zed her kitten and made off with it—seeming delighted to find her child. In about three weeks she came back again, tugging her kitten, and laying it down at the sect of the mistress of the house, seemed to say: "Madame, this kit was too young when you took it before, it needed my care. But now it has grown up and can get along very well. You may now have it." With that Mes. Tab walked off, leaving her kitten and never advantage for it. returning for it .- Rev. Dr. Todd.

The Diminutive Cattle of Brittanny.

LITTLE cows of this breed are becoming quite fashionable in England, and some have been imported here. Some inquiries addressed to the American Agriculturist are answered by an extract from Mr. I lint's report of the International Exhibition of 1861: "The little Bretagne cows pleased me exceedingly. Standing only about three feet high on their legs-the most fashionable height-most black and white; now and then, but rarely, a red and white; they are as docile as kittens, and look pretty enough to become he kitchen pet of the hard pressed mountain or hill side farmer, with the pastures too short for a groser animal. Ten pounds of hay will suffice for their limited wants for twenty-four hours, and they would evidently fill a seven quart pail as quick and long as any other cow. Those pretty cows will often hold out in milk, so the herdman said, from fifteen to eightteen months after calving, and often begin with the first calf with six or seven quarts a day. The horn is fine, not unlike the Jerseys, but smaller and tapering off gradually, and the escutcheon or milk marks of Guenon generally very good. Good cows are held from 60 to 70 dollars a head, a fancy price of course, but I am not sure that they would not pay six per cent, on the investment as well as fancy stocks." It would be an expensive matter to import many at the present rates of exchange, when good cows can be bought for \$50 to \$50, and are worth as much as