The Ontario Agricultural Gazette

The Official Bulletin of the Dominion Cattle, Sheep, and Swine Breeders' Associations, and of the Farmers' Institute System of the Province of Ontario.

THE DOMINION CATTLE, SHEEP, AND SWINE BREEDERS' ASSOCIATIONS.

Annual Membership Fees .- Cattle Breeders', \$1; Sheep Breeders', \$1; Swine Breeders', \$2-BENEFITS OF MEMBERSHIP.

F. W. Hodson, Secretary. Parliament Buildings Toronto, Ont.

LIVE STOCK FOR THE WEST.

A car-load of pure bred live stock will leave for Manitoba and the Northwest Territories about the First of April. There is room for a few more animals. Space can be procured by corresponding with F. W. Hodson, Parliament Buildings, Toronto, Ont.

Farmers' Institute Department.

Reports concerning the work of the Farmers In-stitutes in Ontario will be published weekly in Serthis-head; also papers prepared for this department by Institute workers. Secretaries and officers having amountements to make are Fartled 1 sery full par-culars to the Superintendent.

NORTH MUSKOKA FARMERS INSTITUTE.

I have great pleasure in forwarding the enclosed revised list of members of the above institute containing 122 names; more to follow next month. I see by your report that we lead all the institutes up north here, and are bound to keep the lead if possible. It will not be my fault it we do not, as I can see we have done a lot of good already. I was talking to one of our merchants the other day, and he told me there was great improvement in ling dairy and our institute meetings. I know the farmers are ver anxious

WM. GOLDTHORPE, Secretary.

-401-WEST BRUCE FARMERS' INSTITUTE

Enclosed you will find supplementary lists of members taken by me at our meetings held in the different places, and also the reports of the different meetings held in our district. I have to thank you on behalf of our institute for your wise choice of the speakers you sent us: they are both first class men and thoroughly up in the subjects they speak on. For our district at the present time Mr. Gould's interest is now taken along the line of dairying, corn-growing and the silo, and how to build a cheap silo. The fruits from the meetings held by us will no doubt be great. Major Sheppard's subjects are also very interesting, and will be the means of doing amount of money we have spent will In many cases, bees perish at the tree, production of milk; such as bran, bear good fruit in the near future. in others, on their way to the hive, and chopped oats, a little linseed meal, a

True, the political agitation hurt us in some localities where many meetings were being held, but one thing I can honestly say, no person heard from us outside or inside the hall one word savoring of politics.

JOHN DOUGLASS, Secretary.

THE EFFECT SPRAYING HAS ON BEES.

Ry R. F. Hot TRRMANN, Brantford,

keeping and fruit growing industry through the work of cross fertilization by the honey bee is at present so well recognized that it is not necessary to more than say that anything which injures the bee prevents her from doing this important work. To spray fruit trees when not in blossom does not in-terfere with the honey bee. To spray during fruit blossom, when the latter are secreting nectar for the purpose of attracting the insect and distributing pollen when rifling it of its nectar, is very injurious to the honey bee.

The honey bee has a very highly developed nervous system, and for that butter alone since we had the travel- reason, considering its size, falls an easy prey to quantities of poison which could have no effect upon other insects of a similar size. And the quantity of poison which would be fatal to the honey bee would have to be multiplied many times to have upon larger and the precautions to be observed animals even the effect of a mild tonic, as prescribed by physicians.

The way in which the poison reaches the bee is as follows: -Attracted by the odor of the blossom she goes long distances from the hive; as she nears the flower she locates it, depending more upon her eye as the guide, and enters it, rifling it of its nectar. The nectar through the spraying mixture has a very small percentage of the poison. effect upon the honey bee varies according to the percentage of poison or

still others, lose their lives after re- few carrots, and a reasonable supply of of a true insect, namely, the egg, the such signs as are generally observed a larvæ, the pupa, and lastly the imago, few hours before parturition (such as or perfect insect. During the larvæ a falling down of the muscles of the mature insect; this food containing only a very minute percentage of the poison is much more fatal to the bee when in the larvæ or grub stage and be carefully watched by a careful man, in this way many partially developed bees are destroyed.

stroyed, and so are the embryo bees, the dam and the offspring which is which should go to take the place of soon to make its appearance in the those who have served their day and outer world, and there are many congeneration, and die a natural death, ditions which may arise which imperil and in addition, to build up the colony the lives of one or both-conditions, for the honey flow. In this way it the evil effects of which may be avertwill be seen that a colony may be ed by prompt and intelligent interfertotally destroyed through spraying dur- ence on the part of man, while injuing fruit bloom, or as a result, be in dicious, rash or ignorant interference honey when the proper season arrives. possibility of successful treatment By the surplus honey season we mean even by the most skilled obstetrist. the time when the bees gather more Hence the necessity of having a careful honey than they require for their own man with some knowledge of the act use and when that which is taken to in attendance. The attendant should market is reduced; this season does The relation sip between the bee- nor arrive until later, when clover blossoms open.

> An effect of less importance to the bee-keeper, but one of greater importance to the fruit-grower, is that the bees have been decreased in numbers

Ontario Agricultural College. Announcements concerning the College work will e published weeklylander this head.

FOALING TIME.

By J. Hugo Reko, V. S., Professor of Vetermary Science.

As the season at which most mares a few hints as to the proper attention

may not be out of place.

As the period of parturition approaches, the mare should have good care, food, and attention; she should have regular, but not severe or excessive exercise, either in harness or in the paddock. Exercise under the saddle should be avoided, and especially the use of spurs, as the pain caused by their use is liable to cause premature birth by causing violent contraction of the abdominal muscles. She should subjects were exactly what was ear. This mixture is taken up by the bee the additional industrial and thornestly desired by the people. Great and enters the honey sac—not the have a roomy, well ventilated and thornestly desired by the people. I do not know if the oughly clean box stall while in the stable; mangers or boxes in which she might possibly drop her foal should depends upon the question as to not be present, and she should be whether the honey bee allows a portion plentifully supplied with good clean of the nectar to enter the true stomach straw for bedding. Her food should for its own support. It appears to me be plentiful and of the best quality much good. I must say that we have likely that in either case the bee may and of such a nature as to keep her had every encouragement, and the perish. The result, however, is this: bowels open and cause a plentiful

turning to the hive. This is not all, good hay. The water should be of The honey bee undergoes all the stages first-class quality. When she shows stage it is fed pollen and honey by the hips, the abdomen becoming much more pendulous, often the accumulation of a little wax on the points of the teats, an uneasiness, etc.), she should who understands something about the phenomena of the act. There are The loss then is two fold, or to use a warious reasons why a mare should be well-known term, the candle is burned carefully watched. This is one of at both ends. The old bees are determined of the act. There are a various reasons why a mare should be well-known term, the candle is burned carefully watched. This is one of at both ends. The old bees are determined to the act. so weak a condition numerically that may complicate matters, and render a it can give the bee-keeper no surplus comparatively simple case beyond the not be too anxious to interfere or render assistance, but after the labor pains have been present for some time and have acquired considerable force and duration, if progress is not being made towards delivery, he should endeavor to ascertain as carefully as possible, until unable to fully carry on the work without unduly exciting the mare, the of cross-fertilizing fruit blossoms by cause of the delay, or in other words distributing pollen. This, and not the the nature of the obstruction. This gathering of honey, is the primary may be a simple malpresentation of object of the existence of the honey- the fœtus which he will be able to rectify, but should the ease be beyond successful aid on his part he should without delay secure the services of an obstetrist, which if promptly done will usually result in preserving the life of at least the dam and frequently that of the offspring also, while if the mare has not been watched, but has been left to herself in this state for some hours it is probable complicabring forth their young is approaching, tions will have arisen that will, in many cases, have rendered successful delivery impossible.

Then again, it not infrequently happens that the foal is born with the foetal membranes (the after-birth) intact, and will suffocate in a few minutes if these be not ruptured. Instinct teaches the mare to tear these open with her teeth, but in many cases, in fact in most cases, unless birth has been very easy, the mare will lie resting for a few minutes after delivery, and in the meantime the offspring perishes, while if an attendant he present he can rupture the membranes with a knife and expose the offspring to the air and thereby save its life. Many foals are lost in this way. In other cases the membranes are ruptured but the navel string not broken; in this case the attendant should tie it with a soft strong string about an inch from the abdomen and cut it off with a scraping motion of the knife about an inch below the string.
(To be Continued).