#### November 23, 1916.

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# Those Mysterious Barn Fires

HE frequent recurrence of barn fires in Western Ontario have have A council informe excitament in the diatrix, and much speculation as to their s, and much speculation as to their s, and much speculation as to period the speculation of the second period its second fire within 16 (y, yre-period its second fire yre-special to the popular bellef. The bellef that meendatriam is largely re-sponsible is gaining wider sceeplance and has been greatly atrengthened by the fact that most of the fires have occurred in one section of the pro-tines. It is field by many that were the caused intense excitement in the ince. It is felt by many that were the fires due to spontaneous combustion they would be more generally distrib-uted throughout Ontario and Quebec, aline conditions at having and harvest sine conditions at having and harvest time were fairly uniform over the two provinces. If, therefore the condition in which the hay or grain went into the barn would result in fire breaking out spontaneously, they should not be restricted to one part of Ontario.

restricted io one part of Ontario. With a wiew to securing, if possible, a solentific explanation of the causes of the first, Prof. W. H. Day, Professor of Physics at the O.A.C., Guelph, was recently interviewed by an editor of Parm and Dalay. Prof. Day had only consult hear sensitive to investigate rarm and Dary, Frot. Day had only recently been appointed to investigate the causes of the fire. "It is now gen-erally recognized," said the professor, "that there is such a thing as spon-taneous combustion and that barn fires tailed the conditions and that barn fires have originated from this cause. Cer-tainly the conditions this year are favorable to spontaneous combustion. Haying weather was very unfavorable and in many cases the hay went into the barn in a very wet condition. So The outri an a very wet condition. So far I have not commenced the inves-tigation, but I have received one let-tor from a farmer in Haldimand county in which he states that his hay went in perfectly dry. In this case nome other cause than spontaneous combustion would have to be look-ed for."

is the purpose of the government to horoughly investigate the causes of the fires, and it is hoped that by collecting evidence and submitting it to aclentific scruthay, at least the ap-proximate cause of most of the fires will be determined and the mysterz. cleared up. In the meantime the farmers in the districts where fires have been most prevalent are awaiting with intense eagerness the solu-tion of a problem which so nearly affects their interests.

## Determining Sex By J. G. Lochart.

LOT of nonsense is still heard A LOT of nonsense is still heard about the possibility of deter-mining sex. Those who for-mulate simple rules for sex control seem to overlook the fact that the great scientists with the accumulated knowledge of centuries at their com mand, have not been able to solve the problem of sex control. If they had been able to solve it, their success been able to solve it, their success would have been heralded throughout the world and the principles of their discovery applied to practical use. The eldest children of all aristocratic families would invariably be boys. The laws would also be made use of by breeders of pure bred animals and the proportion of the sexes would be made to conform to market demands

made to conform to market demands. Something, however, is known re-garding the means by which the pro-portion of the sexes is kept constant, or nearly so. At some stage in de-velopment the determination of sex is left entirely to chance. It is for this reason that the balance is so nearly kept. Throw up a coin a half dozen times and it may be that the heads will come up the six times in succession, but keep at it long sough and the time will come when beads and tails have come up an equal number of times. This may then in each other's company. For a even occur several times during the day or two the new cow should be care-first hundred tosses. The same law fully attended and well fed, after which applies in breeding or in anything she may be turned out with some of else, when two alternatives are left the other dairy cattle, preferably quiet, entirely to chance. The tendency is paceable cows, and not such as will to balance up. At some time during boss her around, for cows, like hors, for any the same time during boss her around, for cows, like hors, the fertilization process this is what happens in sex determination. It is thereby provided that the proportion of the sexes shall always be maintain-ed as about equal, and that the deter-mination of sex shall always be be-yond the control of outside infuences

# Making the New Cow Feel at Home

# A. J. Mulligan, Essex Co., Ont.

Now that auction sales are becom-ing the order of the day, many dairy farmers will be introducing new cows into their hords. For a while after arriving the new pur-chases may show indications of fail-ing off in the milt dow. This will comchases may show indications of fail-ing off in the milk flow. This will con-tinue until she has become fully ac-customed to her new surroundings and she can be greatly assisted in becoming so accustomed by careful handling until she feels at home.

the other dairy cattle, preferably quiet, peaceable cows, and ot or cows, all and a swill boss her around, for cows, all and a swill boss her around, for cows, and a swill boss her around, for cows, and a swill be switch and a swill be a switch and a see what kind of atuff they are maneet able may be placed in her permanent stall. There is always some difficulty in getting her into it at first, but after a few times she gets to know. It. Here, in full view of all the other old atach-is sure to soon forget her old atachis sure to soon forget her old attach-ments and to feel entipely at home.

## Testing the New Cow Out.

Unless a recently purchased cow has been previously known by the buyer, a case which seldom happens, it will be necessary for him to become acquairt-ed with her in order to find out the feed and treatment she requires and the production of which she is capable the production of which she is capable Each cow requires special study. Her likes and dialikes must be known if the most is to be made of her. If it is known what she has been fod previ-ously to changing hands, it is well to keep her on the same feed for a while, as to change her to the feeds ordin-ant to change her to the feeds ordin-min m the farm gradually. After becoming nucleonid the new feed, because united and the new feed until she feels at home. Upon arriving at her destination the hereseft, preferably a box stall, so that her apacity may be found by working she will not be able to see atrange best of hereds, preferably and the see atrange tured and they have been previously acquainted, it will be best to place

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account of herself 'when tried out by means of the Babcock test and the scales, sell her. This may have been the reason that her previous owner did.

#### Dressing Percentages Py Prof. W. H. Peters.

THE average dressing percentage of hogs is 75, while of cattle it is 53, and of sheep 48. Part of this difference is due to the method of figuring. In the case of the hog, the hide, head and feet are included in the carcass weight, while in the case of feet are not included. Then the hog is very thick fleshed and has a small digestive system. Cattle and also a small digestive system. Cattle and aheep have large paunches and digestive systems. Sheep dress out lowest due to the wool and the rather light flest. ing of the carcass.

The dressing percentage of animals of each class varies widely. This is due to the amount of flesh, especially fat present on the carcass and some-what to the talckness of the hide and size of the heads and legs, and to the amount of fill or the amount of feed and water present in the digestive tract at the time of slaughtering. For the hogs the dressing percentage var-ies from 65 to 85 per cent., with an average of 75. For cattle it ranges from 48 to 70 per cent., with an aver-age of 53, and for sheep from 44 to 56 per cent., with an average of 48 per cont

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No	Vertical Type Exhaust and Intake Valves	Yes
No	Perfect Balance. No anchoring needed.	Yes

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