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hand and need not be prepared daily.

a fact which makes it particularly valuable for house, in a perpetual summer of warmth, with abun-retail butchers have ever got away from the early feeding. The digestive organs of the dance of food, it has been observed that females wholesalers long enough to buy from anybody very young calf are not equipped for digesting alone will be produced without a break, for years else even if they had cash sufficient to do so. The starchy foods Whole milk contains no starch if necessary, and never a male appearing until credit system has quite a few of them too safely and the nearer we can substitute so as to have the temperature is lowered and the food dimin- entangled to permit of much outside buying. no starch substances in our skim milk, the better ished when they are again produced and sexual But the new Meat Inspection Act raises a new calf back through scours or other digestive assumed by some to have a determing influence farmer and retailer or consumer. It has no after the calf is five or six weeks old. Dry it works out fairly conclusively with some forms, each it can be carried on now as formerly. But grain should take its place just as soon as the operates exactly opposite with others. It is it does provide that all meat destined for export case wil eat it. A good plan to teach a cale to worth noting, however, that what little and interprovincial trade shall be stamped eat chop feed early is to put a handful or so in experimental evidence does exist on the "Canada Approved" on each carcase, by Governmilk has been consumed. The calf will be eating points to the same general fact, though larger animals before killing, inspect the sanitary busy in he bottom of the pail for a few minutes divided a flock of ewes into two equal flocks, stamping them in the manner indicated if they after each feed and he has less time to devote one of which was extremely well fed and mated come up to the requirements re freedom from to the serious calf business of sucking the ears with two young rams, the other scantily fed was disease demanded in the Act. Unless meat is so of his mates, a tendency which seems nat-served by mature rams. The well fed lot pro-stamped no railway company is privileged to ural among calves after drinking milk.

Determination of Sex. (CONTRIBUTED.)

hundred theories are in existence covering the worker, there is no further evidence in the case. case each purporting to be the true one. At least Scientific investigation has lately opened up a

lar credence early last century, but which has male unites with the female cell, and that external never been thoroughly substantiated by experi-mental evidence, was that one which assumed vigor of the parent, or anything else aside from Canada can guarantee that pleuro-pneumonia will of the male or female at the time of mating were in determining results so far as sex is concerned. the United States?

the controlling factors in determining the sex of Facts disclosed by these investigations seem also. That is the crux of the whole question, but it is the controlling factors in determining the sex of Facts disclosed by these investigations seem also are recorded in which this theory was put to the smallest way, the sex of the offspring that results under false pretenses. A flock of ewes varying in age from two to five potent element in determining this. The inheryears were divided into two parts. One or the ent nature of the particular germ cells that come branch full justice. There is little doubt of the flocks was bred to produce female lambs, the together seems to determine the sex of the result- ability of the Canadians to guard against the spread other for males. The first was served by two ing individual. Present knowlegde in the case of pleuro-pneumonia should it develop in the States. rams, one fifteen months old, the other two years; can go no further, but here at last there seems to the second by two mature rams, one four and the be a fundamental cause of sex determination. other five years old. The ewes with the young Enough is already known to show that none of rams were strong and vigorous, with the old the "traditional beliefs" or any of the theories rams weak and ill fed. The principle of the previously held are warranted by known facts. theory was that from the flock in which the Science may be a long way yet from the truth in females were older and stronger than the males this matter, and future research may alter a greater number of female lambs would come, radically present-day ideas in the case, but we and from the strong rams and weaker ewes male offspring would predominate. The flock served by the weak rams produced one hundred and by the weak rams produced one hundred and into intelligently. Speculating and theorizing Editor Farmer's Advocate: females and fifty-three males. From the flock in which the strong rams were used one hundred and thirty-five offspring resulted. Eighty were male and fifty-five female. The second experiment gave almost identical results. The theory means although I am not growing "Preston" I think I has been further substantiated by some evidence

the meal. A quantity of this can be kept on conditions become less favorable and the food the so-called "trust" lays down for them. What supply decreases, males again appear. If the lice the penalty for such an offence would be has Mature flaxseed contains practically no starch, are kept in the artificial environment of a green never been clearly shown. Mighty few Winnipeg the results and less the danger of setting the reproduction resumed. Nutrition therefore is barrier to trade in dressed meat between the disorders. Flaxseed in the milk is not necessary on sex, but unfortunate for this theory, though effect on such trade within the provinces. In the bottom of the bucket each time after the point, in reference to larger animals, to mammals, ment Veterinary Inspectors, who examine the grain before he knows it and the practice has a animals seem less influenced in this respect than condition of the killing plant, etc., and after further advantage in that it keeps his mose the lower forms referred to. One experimenter slaughtering pass inspection on the carcases, duced sixty per cent. females, the other lot only transport it, or dealers to buy and sell it. forty per cent. females. The age of the rams, introduced, of course, a second element, and if in the dressed meat trade outside their own discussed here are considered, a very significant to conform to the requirements of the Act in all The problem of sex, the causes or influences one. Had both lots been served by rams equal in matters, it is doubtful if it would be worth their that control and determine it have been subjects age and constitutional vigor this element would while doing so. The Government have appointed of speculation among men since the earliest times. have been eliminated and the results more something like forty inspectors under this law, Much speculation has been indulged in to dispel conclusive, the facts, however, such as they are, but they are stationed at large killing plants, at the mystery but until comparatively recent have some significance and seem to show that the Calgary. Winnipeg, Toronto and so on. years little intelligently directed inquiry has been nutrition has some controlling influence in deter- farmer to avail himself of the inspection service made to solve the problem and ascertain the true mining sex. Like theory one, this too has no is impracticable if not impossible. The aim of causes or influences that determine the sex of further experimental evidence to sustain it and the Act is to raise the quality of the meat products every animal born into the world. In matters unless we go back and take the classic example of the country and it is doubtful if this end can like these the human mind seems ever ready to of the bee, in which the food fed the growing be attained if farmers and others, without proper accept almost unquestioned any theory men care larva during its early stages seems to determine plants and appliances, are allowed to engage in to evolve, so we find that in all no less than five whether it shall be a fertile queen or a sterile export or interprovincial trade.

four hundred and ninety odd of these so-called the- very fertile field of inquiry in this matter, and ories may be disregarded. This proportion of the researches new under way may in the near Editor Farmer's Advocate: whole have absolutely not a tittle of evidence to future furnish us with important additional data substantiate them. A few of the others are on this most perplexing problem. The investi- of 6th inst, you say, "the obstinate fact remains that worth glancing at and we purpose considering gations so far as they have been carried out seem there is no pleuro-pneumonia in Canadian cattle from one or two of the most reasonable of them here. to show that the sex of the offspring is deter-Only two experiments to indicate that man cannot control even in the practical test. Sheep were used in both instances. from any particular mating. Chance is the A flock of ewes varying in age from two to five potent element in determining this. The inherare measurably nearer a true explanation of the are giving way to sane research.

brought to light from inquiries made into the look up for him in Winnipeg a market for dressed is much stiffer and coarser in the straw and the statistics of marriages and births but it has never beef. Unable to find a market for live stock in grain a good deal darker in color. With me it been clearly shown that it has much to sustain his own locality, he and his neighbors conceived yields well, last year going 33 bushels to the acre it. In fact has been refuted on several occasions the idea that later in the season they would off fall plowing and graded one northern. This as conclusively as its exponents believed it to be slaughter their stock and sell it down here as year I have equally as good a crop both in yield fresh frezen beef. Hence the enquiry. Whether and quality. "Huron" is fully two weeks earlier A second theory that has apparently some dressed beef could be disposed of to advantage than "Red Fyfe." Last year I started to cut substantiation, attributes to the general condi- this way in Winnipeg, other things being favorable, on August 14th and this year on the last of August tions surrounding the animals during the gesta- is open to serious question. There are plenty of when it was fully matured, and everybody knows tion period, in mammals, the controlling influence butchers in the retail trade who handle meat in when "Red Fyfe" was ready to cut this year. in determining what the sex of the offspring that considerable quantities and might readily handle. One thing you will notice about "Red Fyfe" and springs from them shall be. Evidence in support it by the carried, as these farmers desired, but that is, about two weeks before cutting it seems of this is found in the proportion in which males they are so entirely dependent for their supplies, to stand still and is slow about ripening up, while and females are produced among some of the for practically the whole year, on the larger "Huron" comes in quickly after it begins to turn. lower forms, for example plant lice and loops, dealers and abattoir men; the majority of them. I am holding my "Huron" this year for seed It is a well known fact that plant lice in summer, are little better than agents for the wholesalers believing the demand for it will be quite brisk and so long as favorable conditions of life are at and packers, as the beef commission inquiry after our experience of "Red Fyfe" this year, a maximum, will go on producing generation disclosed, so that they cannot or dare not depart. High View, Sask.

J. A. Dorrence.

jelly made by pouring hot (boiling) water on after generation of females, but in autumn when from the regular routine of the retail trade which

It is impossible, therefore for farmers to engage the results quoted in evidence of the first theory province. While it might be possible for them

Would it be Safe?

In the editorial note to my letter in the ADVOCATE which the British herds require to be protected."

A theory which gained some measure of popu- mined at the moment the spermatezea of the what of the American cattle that are admitted— Supposing this to be true at the present time sometimes in thousands—across our boundary? Is that the age of the parent, the strength and vigor, the two uniting cells have any influence whatever not be introduced into the Dominion by cattle from

persistently ignored by those who condemn the British Government, for maintaining the embargo

Man.

FARM

Likes Huron Still Better.

Seeing the letter from "Newcomer" in your issue of November 6th I thought I would give An Alberta farmer wrote us the other day to have something a little better in "Huron." It