

Mystery of Hairless Litters.

Wine grower the phenomena of hairless litters is a mystery in so far as is concerned. He simply sows normal in every way that are quite abnormal in a combination of the following: hoofs; blind; very large, with abnormal development of neck; very small, weakly developed generally. Such pigs from a few hours to a few days. Not all pigs in the litter are affected, some being quite normal.

A scientist has arrived at what he direct constitutional cause, but the causes are also more or less.

may one year lose 90 per cent of the next year with breeding stock, feeds, quarters, management, obtain a normal certain years and localities seems to be almost entirely to disappear entirely. Is it a seasonal influence? Is it transmissible? Is it due to some poisonous substance in the sow's ration which leaves the pig but which arrests or renders the later development of the pig.

It is stated definitely that the abnormal. Certainly there is no such a claim. The possibility of contagion is also most difficult. It would, further, seem that any actual poison to the sow would leave the sow quite apparently the difficulty lies in the deficiency of the sow's ration—normal to the normal growth of the pig. Apparently, too, this abnormality is similar to the deficiency of calves and lambs.

more predisposed to give birth than are adults, possibly in deficiencies in the ration absorbed by the dam. The trouble is in practically every case to the winter-carried litter, rarely seen in the summer or apparently certain deficiencies may be corrected by the sow from other sources, whereas recourse during the winter is artificial.

It is known at present:

ration for the pregnant sow and or nitrogenous predisposition, but that in many sections of the balance and of the ration apparently trouble. While there are to the contrary in Eastern trouble is usually scattered in all likelihood due to Sows are frequently given exercise, too little vegetable as clover hay and roots, no mineral matter, such as salts, earth, etc. They have to rely on a more or less highly concentrated, bran, elevator

proven conclusively that of the Thyroid gland has a on the development of the that the activity of this is quantitatively on its Exhaustive investigation that in the sow this iodine much lower during the months of pregnancy, the time during the year, the hog-man may regard wonderful. The fact re-introduction of iodine into the sow's ration may have the of a normal litter, where had been the case pre-

way to treat the affected prevention only is possible

light grain ration, as re-balance it with plenty of racks, and with pulped and turnips. Make mineral cure, charcoal, soft coal, use of tankage, fish meal, etc., is also recommended the sows may help themselves in the meal. In many cases, as fed, particularly in Eastern preventive practice for some time. In Western Canada, the phenomenon is regu-

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W. A. DOUGLAS, Caledonia, Ont.

trial of a direct addition of iodine in the form of potassium iodine would be recommended. The minimum doses required to give results is not definitely known; however, the administration of 5-grain doses of potassium iodide daily during the pregnant period has proven almost a certain preventive. In fact, the use of this drug two or three times weekly is recommended where it is used during the complete gestation period. In practice, the best plan would be to have a druggist make up a solution of known strength or dilution. By the use of a small measuring glass a sufficient quantity of the solution to contain 5 grains of potassium iodide could be added and stirred into the slop or meal, depending upon the number of animals fed.—G. B. Rothwell, Dominion Animal Husbandman, Ottawa.

The 1920 International Live Stock Exposition.

In the travail of a great industry an event of supreme importance will develop at Chicago the first week of December. It is the twenty-first anniversary of the International Live Stock Exposition, and will be staged this year on an unprecedented scale, both as concerns numbers and merit. North America at the conclusion of the European war was in possession of bovine and ovine seed stock of incalculable value, and the upstartdom of this national possession will be displayed at Chicago this year. In view of impending meat scarcity, the problem of replenishing the national larder is of more importance than ever at this juncture.

Live stock in common with other industries has passed through a period of deflation and readjustment. The new basis of production cost interest is reviving and will accentuate as the fact becomes apparent that within the next five years there will not be enough beef, pork or mutton produced in the United States to maintain pre-war consumption.

Profit in live stock production hereafter will depend on quality. The function of the "International" is improvement of the herds and flocks of the country—a task to which the agrarian interest must now address itself vigorously. On this account the 1920 display possesses more than usual interest, concerning not only producers but consumers.

As a spectacle of animal life this year's "International" will exceed in scope and magnificence all former efforts in the show-ring on this continent or Europe.

More closely associated than ever before are live stock and grain production problems; hence this year's corn show, made possible by a liberal donation from the Chicago Board of Trade, will be staged on a more extensive scale than last year. Corn makes live stock raising possible; without live stock "King Corn" would be minus a stout prop.

Every up-to-date farmer should attend the 1920 International Live Stock Exposition at the Union Stock Yards, Chicago, November 27 to December 4th.

Gossip.

The Canadian Year Book of the Holstein-Friesian Association of Canada, containing a list of all the official and semi-official butter and milk records made by Holsteins, together with a list of all record cows under their sires and under their dams, with the proven sons of such sires and dams, also the highest record cows in each division, is now ready for distribution, and may be had from the Secretary, W. A. Clemons, Brantford, for the small sum of \$2. To all interested in Holstein cattle this volume should be of inestimable value.

Volume 36 of the Dominion Shorthorn Herd Book is off the press, and contains the pedigrees of bulls numbering from 126250 to 136000, and of cows numbering from 143360 to 156500, or an increase of 4,540 over 1918. At the last annual meeting of the Association, it was decided to print the Herd Book in two volumes next year, together with historical sketches, records, and photographs of prize winners. This will make the Herd Book serve not only the purpose of analyzing the pedigree but as a reference in other respects. This should make it a much more valuable book well deserving of a place in every Shorthorn breeder's library.



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Morrison Shorthorns and Tamworths—FOR SALE—Seven dandy bulls from 10 to 13 months old, of Scotch breeding, and choice females of the deep-milking strain. Also choice Tamworths of both sexes from prize-winning and champion stock.

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