

Questions and Answers
Miscellaneous.

Beans Per Acre.

How many beans will it require to drill an acre of ground with rows 2½ feet apart? N. A. D.

Ans.—It depends on the size of the beans. It varies from 3 to 5 pecks per acre, the latter amount for the Marrow-fat variety.

Blackleg.

1. At what age will calves take blackleg?
2. How long will blackleg vaccine insure against the disease? H. C.

Ans.—1 Cattle between the ages of six months and two years are most subject to blackleg, but calves younger than six months old will contract the disease. There appears to be no definite age limit that will ensure immunity.

2. It is believed that vaccine will establish an immunity that will last for 18 months, but calves vaccinated before they are six months old and other cattle in a badly infected district should be inoculated each year before the blackleg season arrives.

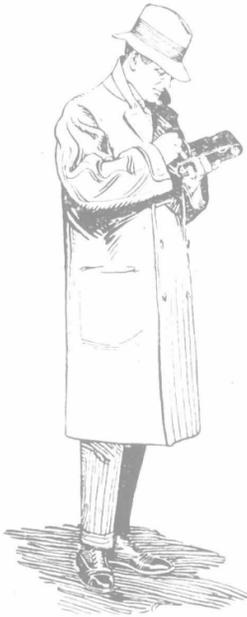
The McGugan Holstein Sale.

Attention is again called to the Holstein sale of A. D. McGugan, at Glenora Stock Farm, Rodney, Ont. Unfortunately for Mr. McGugan he is located in a district where dairying is not carried on to any extent, and the 50 head of heavy producing Holsteins will not bring the prices they would if located in any of the leading dairy districts. Although no official testing has been done in this herd a system of selection has been followed from the first, and only the heavy producers and high testers have been retained. The foundation cows were the very best, and none but high-class sires have been used. Many of the cows in this herd, with ordinary dairy care, have produced yearly from 12,000 to 14,600 lbs. of milk. The young stock is particularly attractive, including heifer calves, yearlings and two-year-old heifers. The 30 mature cows—only three of which are aged—are large and of good type; just the kind a good Holstein judge would select as money-makers. The five-year-old herd sire, Ourvillia Calamity Abbekerk, will be sold. This is one of the best show bulls in the Province and a great sire, as his stock will show. His dam was grand champion at London, and his sire, Dutchland Colantha Sir Abbekerk, has more officially tested daughters than any other bull in Canada. Owing to Mr. McGugan's continued ill health everything must be sold. His fine farm of 185 acres is also to be sold. The cattle have not been fitted for sale but are in A-1 working condition.

Riverside Holsteins.

Among the recent sales of Holsteins from the Riverside herd of J. W. Richardson, Caledonia, mention might be made of the disposal of the 5-months-old male calf, Riverside Mercedes Korndyke. He is sired by King Johanna Pontiac Korndyke, which had over 20 daughters in the R. O. M., with an average test of over 4 per cent. butter-fat. The dam of this young bull is Inka Mercedes De Kol 6th, butter 26.40, which is a sister of Toitilla of Riverside, Canadian R. O. P. champion, and Jemima Johanna Wayne, butter 30.23. J. M. Mussen, Niagara-on-the-Lake, is the purchaser of this calf. John D. McKae of Apple Hill secured Riverside Sir Hartog, sired by Francys Bonerges Hartog and out of Riverside Lady Pontiac; butter as a junior two-year-old, 14.35. She is a daughter of King and a granddaughter of Toitilla De Kol Sarcastic, butter 29.42, the dam of Toitilla of Riverside, Canadian R. O. P. champion. John A. McKay, of St. Mary's, purchased a son of Riverside Mercedes Korndyke, butter at one year eleven months, 17.42. This heifer is likely to increase her record at next freshening. Two heifers went to Paul Merritt, Beamsville. They had just completed a seven-day test with creditable records as two-year-olds. Wm. E. Boughner, also of Beamsville, purchased Aaggie Zenobia, a daughter of Roebuck's Beauty, butter 28.33. This cow has dropped a fine heifer calf, and Mr. Boughner is highly pleased with her. The young calves on hand at Riverside are strong, well-marked, straight individuals, and it will pay you to inspect them. A few more must be sold at once to make room.

M A D E I N C A N A D A



Those things that need your attention on the farm:

You, Mr. Farm Owner, who are about to make your first trip of the season to the farm, will find a score of things that need attention. Whether it is rented or "worked on shares," or whether you employ a superintendent, you, the owner, have certain things that you want done, will order done. And you want a record of how things look now:

- Certain old fences.*
- The south porch.*
- The land that needs tiling.*
- The foundation to the corn crib.*
- The broken hoops on the silo.*
- The condition of the orchard.*
- The condition of the horses and cattle and hogs.*

And one obvious thing to do is to make an auto-photo-graphic record. Make pictures of the things that don't please you, as well as pictures of the things that do please you. And alongside of each picture make a brief memo, —at least a date and title, an authentic, indisputable record written on the film at the time. It's a simple and almost instantaneous process with an

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RIVERFIELD, QUE., Jan. 25, 1917

Gentlemen:—

I have noticed some of the testimonials you are publishing and thought I would let you know how I like the Empire Milking Machine and Empire Engine which I purchased from you in the month of April, 1916. It has given entire satisfaction. I have had considerable experience with engines for many years, and am consequently in position to appreciate the merits of the Empire, and recommend same as one of the most reliable for milking machine and general farm work.

With your Milking Machine I can produce milk of superior quality, according to the statement of the John D. Duncan Co., to whom I have been shipping. I find that the machine is in no way injurious to the cows or teats, and no other trouble has been experienced. The speed at which the machine can milk is regulated by the class of cows and the quickness of the operator.

J. R. McKELL

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Write for Booklets explaining the correct natural principle on which the Empire works, and giving the experience of prominent Dairymen who are using it. Address Dept. "C"

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In a letter advising a change of advertisement in this issue, Alex. Hume & Co., of Campbellford, Ont., writes that their herd of Ayrshires have come through the winter in good condition and their crop of calves from the champion, Hillside Peter Pan, is a very promising one.

When Writing Please Mention Advocate