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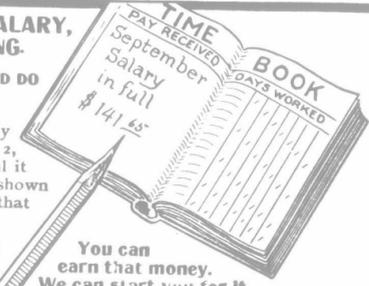
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Have some nice bull and heifer calves for sale at reasonable prices. For particulars, etc., write to WM. STEWART & SON, Campbellford Sta. Menie P.O., Ont.

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Am now offering young bulls and heifers, true to type and high in quality. Young Yorkshires of both sexes.

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36 head to select from. All imported or out of imported sire and dam. For sale: females of all ages. Am now booking orders for bull calves.

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Four young bulls, all bred on dairy lines, out of famous dams, fashionable in color, as well as in breeding. Will be sold worth the money. Females all ages.

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Raise Them Withou Milk. Booklet free. The Steel, Briggs Seed Co., Toronto, Ont.

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ISALEIGH GRANGE AYRSHIRES!

Our herd were all selected on their ability to produce a heavy yield of milk. We have a number of 40, 45 and 50 lb cows, imported and Canadian-bred. From them are young bulls and heifers for sale. None better. JAMES BODEN, DANVILLE, QUEBEC.

QUESTIONS AND ANSWERS. Miscellaneous.

GRAIN MIXTURES.

I am advised to sow barley, oats and spring wheat for a good mixed crop. I think I have oats and barley that will come on and ripen fairly well. Can you tell me what kind of spring wheat would ripen with them? Some say the Goose wheat is rather late. Our oats are Bumper King, from Rennie & Co., Toronto, and Mandscheuri barley. What proportion of each should be sown?

R. A. R.

Ans.—Judging by Prof. Zavitz's experiments, you could expect to gain nothing by including wheat in your mixture of oats and barley, as he has had the largest yield from barley and oats that he has derived from any of the many mixtures of two and more kinds tried. For our own part, in sections where peas do well, we prefer a mixture of oats and peas, on account of the greater feeding value of peas over barley, and the superior condition in which they leave the land. If wheat were to be included with the barley and oats, we could suggest nothing better than Goose wheat, which yields well, and ripens practically as soon as the other kinds. The best yielding proportions of grain in the seed mixtures are, if peas and oats are used, one bushel of oats and one bushel of peas, mixed, per acre, or where oats and barley are combined, one bushel barley and one bushel oats, mixed, per acre.

FEEDING VALUE OF CORN EN-SILED VS. FIELD-CURED—VALUE OF FODDERS—PROTECTION OF STAVE SILO.

1. What is the feeding value of an acre of corn put into a silo, compared with the same stood up in the field till winter, and fed in this way.

2. What is the value of a ton of silage, compared with a ton of clover hay, peas and oats cut green, or fall rye cut green?

3. Will stave silo last longer, or give better satisfaction, by being enclosed? SUBSCRIBER.

Ans.—1. From a chemical standpoint, there is not a great deal of difference between the two methods of preservation, so far as the economy of dry matter is concerned. Practical feeding tests, however, both in experiments and in everyday practice, have almost, if not quite, always indicated a considerable advantage to be possessed by silage, especially in milk production. Whether this consists wholly in its succulence, or partially in that and partially in its appetizing virtue, we do not pretend to say. Probably both factors count.

2. This comparison is between substances so different in their nature that an estimate of values would be contingent upon the knowledge of what each was to be fed with, and even then could be only very approximate. For instance, if cattle were receiving roots, the addition of silage would not be of so much advantage as if the stock were getting no other succulent feed. The best we can do in answering this question is to submit a table giving the total dry matter and the percentages of digestible nutrients in each feed. In the data before us, we do not readily find the analysis of cured oat and pea hay, nor of rye hay, but we give the analysis of these fodders green, and also the analysis of green clover, to convey a rough idea of the effect of drying on the content of dry matter and digestible nutrients:

	Dry matter	Digestible protein	Digestible carbohydrates	Digestible ether extract
	%	%	%	%
Corn silage	20.9	0.9	11.3	0.7
Red clover hay	84.7	6.8	35.8	1.7
Red clover (green)	29.2	2.9	14.8	0.7
Oat hay	91.1	4.3	46.4	1.5
Peas and oats (green)	16.0	1.8	7.1	0.2
Rye (green)	23.4	2.1	14.1	0.4

3. A stave silo will last little if any longer by being enclosed, nor will it give materially better satisfaction, except in severe climates, where protection from severe freezing is a consideration.