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..*ROBERTSON-STEWART. — The marriage of Miss Fannie Lee Stewart, daughter of Mr. and Mrs. Oswald Stewart, of Kingsboro, and William Robertson, son of the late John J. Robertson, also of Kingsboro, was solemnized at the manse, Kingsboro, on the evening of April 21, in the presence of immediate relatives and a few friends. Rev. W. R. MacWalker performed the ceremony. The bride was attended by her sister, Miss Jennie Stewart, and the bridegrooom by Mr. Harry Stewart. The bride was a picture of girlish grace and beauty in her bridal robes of white — her appearance calling forth the playful compliment from one of the guests: "A form more fair, a face more sweet, ne'er hath it been my lot to meet." Miss Stewart is one of those girls who is loved by all for her genuine goodness, and her friends are glad that her marriage does not remove her from her native village. Mr. Robertson is one of our first class young men, whose home will be a valuable addition to our community. Many happy years of wedded bliss!

....*UNCLE JOSH.—On Monday night, April 9th St. Peter's Bay was favored by a visit from the Scotchfort Social Club, who staged in a most brilliant manner the Four-Act Comedy Drama, Uncle Josh and were highly congratulated by all present. Despite the very unfavorable condition of the roads the hall was filled to its utmost capacity. Although being amateurs the different parts were most capably performed by the following characters, Mr. Alex McKenzie deserving special mention in the splendid manner in which he took the part of Uncle Josh. Mr. Joseph Fisher acted in a very commendable manner the part of the Count De Courville, Mr. Elmer MacDonald, as Gerald Murray very capably performed the part of the gentleman. Mr. Upson Downes, the Dude's part was efficiently acted by Mr. Lea Fisher. Slippery Joe's part was well taken by Mr. Joe Weir. Mr. Pius McBride, as Mulchaey, acted in a very capable manner the part of saloon keepers. Munson the part of Detective was well taken by Mr. Ambrose Mullen. Mr. Peter McKenna as Erastus took well the part of Mrs. Reynold's Servant. Miss Elsie Feehan, performed in a very praiseworthy manner the part of Mrs. Reynolds. Miss Hannah MacIsaac acted in a most fitting manner the part of Letty, Mrs. Reynold's daughter. The part of Minerva the Old Maid was most efficiently performed by Mrs. Alex McKenzie. The music both vocal and instrumental was excellently furnished by Mr. Victor King and Mr. Lawrence Smith. The play was followed by a social and dance which was thoroughly enjoyed by all. We are all hoping that this will not be the last visit we receive from the Scotchfort Social Club.

THE TREATMENT OF GRAIN

(Experimental Farm Note)

The smut diseases of grain are of considerable economic importance and every farmer should know how to combat them for the sake of his own crops as well as those of his neighbours. The following is a list of the common smut diseases of grain crops, with the treatments for each; this is followed by a detailed description of the treatments:

WHEAT:—Stinking Smut or Bunt: Thorough fanning of the seed grain will remove most of the smut balls. This should be followed by the formalin dip or sprinkle, which give perfect control. Copper carbonate dust is giving good results and is easier for application, but it has not been tested sufficiently to warrant general recommendation.

Loose Smut:—This disease cannot be controlled by seed disinfection because the fungus spores are not carried on the surface of the seed, infection being produced by a small part of the fungus carried within the grain Hot water treatment is the only means of control.

BARLEY—Covered Smut: Formalin dip or sprinkle.

Loose Smut:—This is similar to the loose smut of wheat and can only be controlled by the use of the hot water treatment.

OATS:—Smut: Use the dry formaldehyde treatment, or the formalin sprinkle. It the case of hulless oats, either of these treatments causes a serious loss in germination of the seed, and copper carbonate dust should be employed.

CORN:—Smut. This disease is not transmitted in or on the seed grain, but is carried over in the soil from one year to the next and spreads in the field from infected to healthy plants, producing the smut "boils" on any part of the plant. A strict rotation, and as far as possible, the collection and burning of the "boils" are the only means of controlling its spread.

TREATMENTS

Formalin Dip: Fill bags half full of grain. Add one pint of formain (40 per cent. formaldehyde) to 40 gallons of water, immerse bags in the solution for ten minutes, moving them up and down so as to drive out the air bubbles. Remove the bags and allow to drain and then spread out the grain to dry. Be sure not to replace the grain in the bags used for the seed before treatment, but either new bags or ones that have been soaked in the solution and dried. The solution does not lose strength by use.

Formalin Sprinkle: Dilute one pint of formalin (40 per cent formaldehyde) with 40 gallons of water. Pile the grain on a clean floor. Sprinkle the solution on the grain with a broom or sprinkling can. Mix well by shovelling over. When the grain is evenly wetted, pile it again and cover with clean bags for two hours then spread it out to dry and put into clean bags. Forty gallons of solution is sufficient for 40 to 50 bushels of seed if seeding is done soon after the treatment adjust the drill to allow a free flow of seed or the stand will be too thin.

Dry Formalin Method. Dilute Dilute one part of Formalin (40 per cent. formaldehyde) with one part of water and spray this solution on the gain, shovelling over at the same time. One quart of solution to 50 bushels of grain. Cover the pile with bags or blankets for five hours. The seed can then be sown without drying.

Copper Carbonate Dust: Two ounces of finely divided copper carbonate is used per bushel of seed. The seed and dust are put into a barrel and the open end covered by tying a piece of canvas or a sack over it. The barrel is then rolled around on the floor until the dust has been thoroughly distributed over the seed. This treatment can be done at any time prior to sowing.

Hot Water Treatment: This is a difficult treatment unless there is live steam used in the dairy on the farm, or unless there is a cheese factoy nearby, where the teatment could be done. The bags of grain are placed in water and live steam turned in until the temperature is raised to 127 degrees Fahrenheit. Enough steam is then run in to maintain a temperature of 124 degree to 127 degrees for ten minutes. The bags are then taken out and drained and the grai spread out to dry.

LIVESTOCK

(Experimental Farms Note).

Success in the feeding of live stock depends not only on the ability of the farmer to get the most out of his acres, but also upon the quality of the produce of his fields. Particularly does this refer to hay crops of all kinds. A desirable feed must be digestible, palatable and productive. All these factors insofar as hay crops are concerned are largely controlled in the curing of the crop.

The Effect of Cutting at the Right Stage.—In a general way the practice of allowing excess maturity before cutting is too prevalent. It might be almost permissible to advise paradoxically the cutting of all hay crops about one week before they should be cut—or, to amend slightly, before one though they should be cut. Very little hay is cut too green. One is liable to lose sight of the fact that most hay crops continue to mature for some little time after cutting, such as with the clovers and particularly with oats, hay, peas and oats, or peas oats and vetches. Early cutting of hay crops, other things being equal, tends to produce maximum palability and therefore maximum consumption later on. The ruminant must get distention. It is easier and more economical to obtain this necessary mechanical filling out, in part, at least, with a palatable, easily digestible, feed. For the early cut hay crops is usually more readily digestible, because of the lesser development of crude fibre and the more readily assimilable form of the nitrogenous elements. Thus such hay crops, besides being highly palatable, tend toward the saving of higher priced concentrates in the total ration. Oats or other cereal crops, cut for hay, lose a great deal of their palatability and productivity when cut much after the early milk stage. Such lacks must be made up from more expensive sources to obtain the expected milk yields.

The Effect of Proper Curing.—Proper curing has a decided effect on the productive power of hay crops. Imperfect or superficial drying and curing in the field renders heating in the mow certain and the development of moulds—"fire-fang." Palatability is decreased and palatability is, if anything, the greatest of the three essentials in a good feed. The highest quality of legume hay from the standpoint of productivity cannot be obtained unless some provision is made for this soft green cut sappy crop to be allowed to go through its preliminary "sweating" in a small, properly built pile in the field, where the heating process may be controlled and checked when the coil is opened up. Failing this, as when the more rapid methods of harvesting are employed, the crop heats in the mow, where the process cannot be controlled. Considering the question from the standpoint of quality feed for the milking cow, coiling legume hay crops is a haying investment even were it possible to guarentee perfect hay weather. To the alfalfa grower harvesting his first crop of the season under the frequently unsettled weather conditions of our Canadian June, proper coiling is a necessity. It is doubtful wheather coil caps and covers are not also a necessity to the man who sets a premium on quality hay. The increased productive qualities of a properly coiled and covered crop of alfalfa is one or two wet years might pay for the cost of equipment and labour connected therewith. One cannot always follow the dicta es of judgment. Nevertheless, during the rush of haying this fact sometimes gets foundered: that the crop harvested is not merely a filler, something to keep animals alive in the winter, something to be got from off the fields and under cover as promptly as possible, but a feed, the productivity of which may be made or marred in the curing.

MARKETS AND REQUIREMENTS FOR EXPORT CATTLE.

(Experimental Farms Note.)

Feeders of beef cattle may look with considerable assurance for a strong market for **properly selected and finished** export beef on the hoof during the latter part of April and the first weeks of May. No very great movement can take place before that time, for the terms of the cattle embargo removal, which become effective April 1st, stipulate that all cattle must be shipped from a Canadian port. Montreal is the logical economical port for these shipments, but it will not be open until about the end of April. A few shipments may go by way of Halifax or St. John in the meantime, but, on account of the high cost of rail transportation, the bulk will be held for the opening of the port of Montreal. Present indications point to a heavy demand from the British market as soon as it can be supplied.

The statement **"properly selected and finished"** used above is used advisedly. The British consumer is a connoisseur of beef and his palate is not likely to be satisfied with any second rate meat, consequently if we do not wish to land this prospective beef trade into the secondary position in which we now find our bacon trade, let us start right by sending over a well graded product. Grading should be done on the basis of breeding, size, finish and suitability for shipment. In the first place, an export steer should show sufficient good beef breeding that he will fill the eye of the prospective buyer on that score alone. First impressions are most lasting. Size is both for and against. Shipment being on the basis of so much per head, the heavier the animal the lower the cost of transportation. The demand, however, is for a medium sized animal. Selection should therefore be on the basis of weight for size and age, i.e., heavy little animals. The finish must be up to a fairly high standard, recently and uniformly put on. Here to a greater extent than is the case on our home market is where feeding to a high finish will be justifiable. Suitability for export shipment includes such factors as free lom from disease, or recently received blemishes; a degree of docile temperament; and last, but not least, an absence of horns, for dehorning is practically imperative for export shipping. If these few factors are kept in mind at the start and nothing but Canada's best shipped over, a steady rather than a glutted market may be looked for.

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HOLSTEIN NOTES.

Our enterprising breeder, Mr. Cecil Stewart, Hampshire, has recently made another good buy in the heifer Molly Jewell, which won second in the milk test for heifers under thirty-six months at Charlottetown, 1922. This heifer is sired by Sir Di Kol Pontiac Jewell, at one time junior herd sire at Bunbury Farm, and her mother, Molly Rooker, is sired by Gay Lad, who has one qualified daughter, Molly, besides making good at the pail, was able to stand in second place in a class of fourteen at the same show. So Mr. Stewart has both production and quality. As noted before Mr. Stewart now owns Puterje Rooker Count, twice grand champion at Charlottetown. This bull comes of the best American and Canadian blood that can be procured, and would look good at the head of most any herd. In all Mr. Stewart has five pure bred females, his first venture being Victoria, of Springbrook, purchased from Messrs. W. J. Gibson & Son, Marshfield, and sister of Springbrook La Honda Jewell, whose three year old R.O.P. is 15595 lbs. milk and 675 lbs. butter, and of Springbrook Etta Posch, who has a two year old R.O.P. of 11451 lbs. milk and 541 lbs. butter. Besides Victoria the other members of the herd comprise of two daughters of Victoria, one sired by Duke Schuelling, and the other by Puterje Rooker Count, and also a daughter of Inferno of Kelvin Grove. With the above herd sire and such quality of females, Mr. Stewart should be a contending factor at our shows in both breeding and production classes. Success!

Another young Holstein breeder worthy of mention in these notes is Mr. Gordon Newson, of Kingston. It was Mr. Newson who developed the heifer Molly Jewell, sold to Mr. Stewart. Gordon decided he would start right and secured for his foundation cow Cynthia Abbekerk, ified daughters including Dinora 4th, whose four-year-old R. O. P. is 23294 lbs. milk and 958 lbs. butter. Cynthia, as well as being a producer has always been in the money whenever shown. One could not have much better foundation stuff than this cow, which has presented her owner with a beautiful heifer, Francy Rose, sired by Patrick Colanthus Abbekerk, and now has a well shaped bull from Puterje Rooker Count, herd bull for Mr. Stewart. Mr. Newson has also another son of Patrick C. A. from Mr. Kennedy's winning heifer at Amherst, Elizabeth Kirk. It is Mr. Newson's intention to breed nothing but Cynthia stuff and we hope to hear of some very creditable records made at Kingston ere long.

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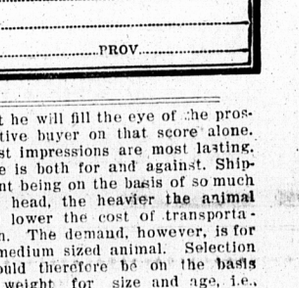

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