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GOING WEST

odation, 11.11.11 8.44 a.m.

Express, 17.17.17 12.47 p.m.

Express, 83.83.83 6.48 p.m.

ress, 5.5.5 9.11 p.m.

ress, 15.15.15 10.10 p.m.

GOING EAST

Limited, 89.89.89 7.33 a.m.

Express, 6.6.6 11.16 a.m.

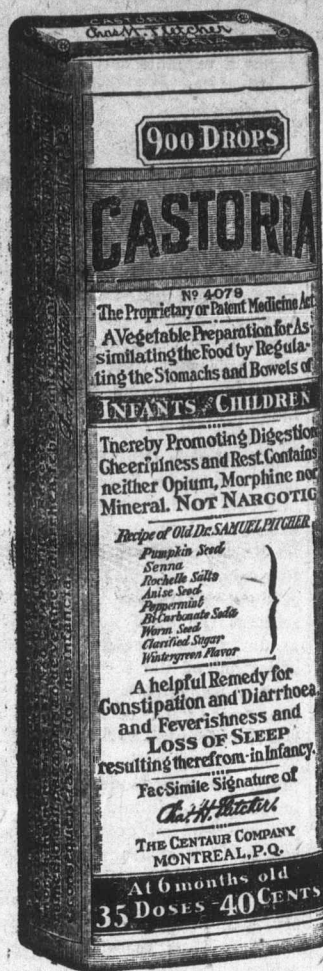
odation, 110.110.110 2.23 p.m.

odation, 112.112.112 5.45 p.m.

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Strathroy	19, 20, 21 Sept.
Watford	22, 23 Sept.
Petrolia	26, 27 Sept.
Sarnia	28, 29, 30 Sept.
Glencoe	29, 30 Sept.
Forest	3, 4 October
Bridgen	4, 5 October
Wyoming	6, 7 October
Florence	6, 7 October
Wilkesport	10, 11 October
Alvinston	11, 12 October

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EMMER AND SPELTZ

Judging from the number of enquiries received here, at other agricultural institutions, and by the agricultural press, it appears that much confusion exists in the minds of the farming community in regard to Emmer, Speltz and "Speltz". A few words of explanation, therefore seem desirable.

Emmer and speltz are closely related cereals which resemble wheat, but differ from it by retaining the chaff when they are threshed. This retention is due to two causes, first, the tightness of the chaff around the kernel, and second, the brittleness of the head, which causes it to break very readily, and therefore, makes it more difficult in ordinary threshing to extract the kernels.

There is no such thing as "Speltz" and there is no such word in the English language. When this word is used Common Emmer is the grain which is meant.

Common Emmer is the most valuable of all the varieties of emmer and speltz, but it has been too much advertised and praised by parties who had seed for sale. For ordinary climates it is certainly inferior in usefulness to the grains more commonly grown. It may, however, prove valuable in some cases in very dry districts. It resists drought and rust better than ordinary wheats but it cannot take the place of these, because the kernels do not thresh out clean. Special machinery would have to be used if it were required to remove the chaff. Emmer, therefore, must be compared with other grains and not with wheat. As a rule farmers will find it more advantageous to grow barley or oats than to grow Common Emmer, particularly in climates where there is a reasonable rainfall.

The average yield of Common Emmer during the last eleven years on the Central Experimental Farm at Ottawa, has been a few pounds less than that of the most productive spring wheat, and considerably less than was obtained from the highest yielding varieties of oats and barley. The other emmers are less productive, and many of them are coarser than Common Emmer. All

the spelts are extremely coarse, and cannot be recommended for use under any circumstances in Canada.

C. E. SAUNDERS,
Dominion Cerealist.

CARE OF SEED POTATOES AND PREPARATION FOR PLANTING

(Experimental Farm Notes)

For an early crop, it is a common practice to take the seed tubers to a light room of about 60 degrees temperature by the 20th March, to give them four to six weeks to warm up and sprout. A thick green sprout not more than a half inch long is wanted. The exact gain in growth from this treatment has not been determined. In one trial at the Experimental Station, Fredericton, the difference in growth as between seed so treated and seed taken immediately from the cellar was very slight. Plants from the sprouted seed were only from two to three days ahead of the others.

To kill any spores of common scab and to some extent, Rhizoctonia, the potatoes should be treated with a disinfectant. The safest to use is formalin, at the rate of a pint to 30 gallons of water. The tubers are best bagged and then immersed for two hours.

Investigators are now trying out methods of disinfection whereby the use of heat and greater strength of solution will materially hasten the process of disinfection.

Experiments have proven quite clearly that the most economical way to use seed is to cut to sets weighing not less than one ounce and not more than two ounces, with from two to three eyes to a set. Cutting by a machine or a cutting board may be economical in large commercial operations, but as when using these the size of sets and number of eyes cannot be well regulated nor elimination of internal disease carried out the advantage of speed may not be good economy.

To make sure that no sets infected with Black Leg, Fusarium Wilt, Late Blight and other possible troubles are planted, the best procedure is, first, to throw out all cut and bruised tubers, cut a thin slice off the stem end and then discard any tubers showing discoloration. Two knives should be used, one kept standing in a can of formalin solution; immediately a discolored potato is cut, the knife used should be put in the disinfectant and the other knife taken.

As the sets dry out quickly when cut and will heat if left in piles or barrels, they should be coated with dust, Gypsum, or land plaster, is one of the best materials to use, and if from two to four quarts is spread through the barrel of seed the sets will keep cool and firm with out deterioration for days and even weeks. Air slaked lime is frequently used and sometimes road dust and sulphur. Lime, if not thoroughly slaked, may injure the eyes and make the sets unpleasant to handle. W. W. HUBBARD, Superintendent, Experimental Station, Fredericton.

THE EXPERIMENTAL FARMS SYSTEM

Remark has several times been made in Parliament and elsewhere that the splendid work performed by the Experimental Farms System of Canada is not nearly so widely known and appreciated as it should be. In the Agricultural Gazette of Canada for January there appears an outline of the systems and the tasks in which it is engaged. The Central Experimental Farm at Ottawa is the headquarters of the twenty branch or auxiliary farms and stations. It is stated that there is one farm in each of the provinces of Prince Edward Island, New Brunswick, and Ontario, two in Nova Scotia, four in Quebec, two in Manitoba, three in Saskatchewan, two in Alberta and four in British Columbia. There are also two sub-stations in Alberta, two in the Yukon and one in British Columbia. In addition, working with the system are tobacco stations at Farnham, Que., and Harrow, Ont. At all of these experimental and research work of national importance is carried on. Eighty illustration or demonstration stations have also been established in New Brunswick, Nova Scotia, Quebec, Alberta, and Saskatchewan. Each branch of agriculture is dealt with in actual ex-



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Over fifty years ago a young physician practiced widely in Pennsylvania and became famous for his uniform success in the curing of disease. This was Dr. R. V. Pierce, who afterwards established himself in Buffalo, N. Y., and placed one of his prescriptions, which he called "Golden Medical Discovery," in the drug stores in the United States and Canada, so that the public could easily obtain this remarkable tonic, corrective, and blood-maker. Dr. Pierce manufactured this "Discovery" from roots and barks without alcohol—a corrective remedy, the ingredients of which nature had put in the fields and forests, for keeping us healthy. Introduce pure red blood into the system, and health is assured. When you feel run-down, out of sorts, blue and despondent try the energizing influence of this reliable tonic. You can obtain Golden Medical Discovery in tablet or liquid form at all drug stores, or send 10c for a trial package to Dr. Pierce's Laboratory in Buffalo, N. Y.

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Up-to-date lists of the pure bred livestock for sale in the county kept on hand. Expert assistance will be given to all parties desiring to purchase herd sires. Parties desiring to list their animals should communicate with the Secretary.

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