WE FEATURE THE MONO-VAC

An Electric Vacuum Washer of Proven Efficiency at a Sales-making Price

A Maxwell Product

Made in Canada

Features that make the Mono-Vac exceptional

- -Single large vacuum cup of alum-
- -Adjustable to size of washing.
- -Heavy cypress tub, holds heat instead of radiating it as with metal.
- -Driving gears under tub promote stability; all fully protected.
- -Adjustable fourth leg, for uneven floors and draining off.
- -Swinging, reversible quick-release

Real Value \$135

Greene Bros. - Phone 146

Waterdown

We have been instructed to accept subscriptions

Family Herald and Weekly Star At 75c for balance of 1923

This rate applies to New Subscribers only

Say It with Flowers

Cut Flowers

Violets Sweet Peas Begonas **Daffodils** Hyacinths Cineraria Tulips Calla Lillies

The Sawell Greenhouses

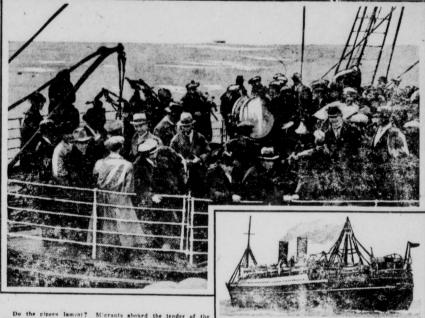
GREENE BROS.

Electric Supplies

Phone 146

Waterdown

FROM HARD TIMES TO CANADA



When the Canadian Pacific steamships "Marloch" and "Metagama" last docked at St. John, Canada gained to the extent of over six hundred able bodied and industrious farmers, farm workers and women from the Hebridges. Forced by the loss of their fishing trade through the war and German competition, and by general hard times to leave their thatched homes, these people have come to a land of promise and have been welcomed as the most valuable immigrants in years. Under the leadership of Rev Alexander J. Gillies and Rav. John MacMilan, they have gone to the Red Deer district of Alberta and to various parts of Ontario, where they will engage in Most of them are from the island of South Uist. Benbecular and Barra. Here their families worked small farms of from ten to twenty acres and kept a steek of from two to eight cartle and to a steek of from two to eight cartle and ten sheen on common actories. In the saving they gathered seased for feet liver, planted outs, barly, yet and journees, and when this was done took to the sea, on the "Metagama."

MILK PASTEURIZATION

Making Milk Sale for Use in the F-mily.

Pasteurization Is Not Sterilization-Diseases Transmitted by Milk

—Points Charged Against Pasteurization — "Safety First" a Good Practice.

(Contributed by Ontario Department of Agriculture, Toronto.)

The process applied to milk, that we know as pasteurization, was originally used by Pasteur to prevent the souring of wines and beer, and it is now universally applied in the con-trol of unitk supplies of large cities. At first it was intended for the pre-servation of milk, that is, to prevent souring, but now it is used solely with the idea of destroying disease-producing, microorganisms

Disease Transmitted by Milk.

Some of the diseases of man that may be transmitted by milk are; Septic sore throat, typhoid, scarlet fever, diphtheria and tuberculosis. Some animal diseases transmissible to man through milk are; Tuberculosis; cow pox, which may cause infection of the digestive tract in young children; mastitis, which may cause gastro-intestinal disturbances; foot and mouth disease; trembtes; acti-

nomycosis and others. Pasteurization cestroys the organisms that are the cause of all the foregoing diseases. In regard to bovine tuberculosis it is known that though adults may be relatively immune to infection from a bovine source, children are quite susceptible, and a considerable percentage of cases of tuberculosis in young children can be shown to be of bovine origin. There are certain biological differences in the bacilli from humans and cattle which make it possible to differentiate these infections. A cow may be dangerous even though the udder is not infected, as the germs are passed out with the excreta before any clinical evidence of tuberculosis is present, and owing to the position of the udder it is almost impossible to keep them out of the pall as they fall in with the tiny particles of manure that are on the cow's body and that silt down in the form of dust. Apart from the recognized disease producing bacteria, it is known that large numbers of ordinarily harmless ones in milk may cause a serious and frequently fatal diarrhea in children during the summer months.

souring, but now it is used solely with the idea of destroying disease-producing micro-organisms.

Pasteurization is Not Sterilization.

A much greater heat is required to sterilize than is applied in the former process. Pasteurization consists of heating the milk to a t-mperature of not less than 140 degrees and not more than 150 degs. F., for a period of not less than 20 and not more than 30 minutes, and then rapidly cooling it to 45 degs. F., or under, and keeping is at that temperature until delivered to the consumer. In addition to this, every care must be taken to have a clean product. The process does not remove dirt; therefore those responsible for the superation.

No matter how carefully milk is handled and how well cows are inspected there still remains the danger of the carrier, that is, a person harboring the germs of a disease and yet not affected by them; or of the current of the consumers of the current of t

"Safety First" Good Practice.

Until methods of milk production are much more perfect than they are at present the only way of maintaining a safe milk supply would appear to be by pasteurization, in which the rapid cooling and keeping cool is given as much attention as the maintenance of the correct temperature for the proper length of time.—Ronald Gwatkin, D.V.S.c., Ontario Veterinary College, Guelph.

"FEELING" FOR LAYERS

this Method Is About as Certain as the Trap Nest.

Experiments With Capons - Feeding Costs—Excellent Flesh Produced Without Confinement — Handling Baby Chicks.

(Contributed by Ontaric Department of Agriculture, Toronto.)

The writer carried on a series of experiments with poultry when con-nected with the Agricultural Experi-ment Station for Vancouver Island, Sidney, B.C., and presents the follow-

DETERMINATION OF EGG-LAYING A test was made of the feeling

method, to determine its accuracy Thirty hens that were under trapnest record were subjected to the feeling process for eight days: January 17

checked up and tailied perfectly with the "trapnestins," indicating that it is quite possible for any careful peris quite possible for any careful person to determine which hens are laying by feeling the bird for the presence of the egg in the oviduct, in the early morning before she leaves the perch. The method also has an advantage in that it eliminates the necessary confinement of the birds in a "trapnest" for a period which is frequently longer than is actually required to produce an egg.

The great disadvantage of the feeling method is that it is impracticable for pedigree breeding, inasmuch that the eggs from individual birds cannot be recorded.

CAPONS.

Thirty cockerels were operated on

CAPONS.

Thirty cockerels were operated on when twelve weeks old. These birds were a thrifty and well-grown lot, overaging 2 ½ pounds in weight. After caponizing, they were kept under the same conditions as the cockerels. The feed cost for a pound increase in weight was slightly less for the cockerels up to six months of age. At this time the cockerels and capons weighed the same. These birds were killed for Christmas trade when 264 days old, and weighed, plucked, 8 pounds 2 ounces. The pyrcentase of offal was low, being but 18 per cent.

The most profitable use is made of beet tops when they are siloed an fed with alfalfa hay or other forase and possibly supplemented with grain or concentrate feeds.

The chief value of cowpea hay lies in its high percentage of digeprotein. This has been verificumerous feeding tests.