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The Makers' Corner

Butter and Cheese Makers are in-vited to send contributions to this department, to ask questions on matters relating to cheese making and to suggest subjects for discus-

Форрационарования просо Mould in Butter

OULDINESS in Butter" was recently studied by the Uni-ted States Department of Agriculture, and the results published recently : Mould may cause deterioration in

Mould may cause deterioration in butter either by developing on the wrapper and spoiling the a--earance of a sample, or by growing in the butter itself and producing thereby such changes in the composition as to make the butter unsaleable. The such changes in the composition as to make the butter unsaleable. The nature and conditions of growth of such moulds were studied; it was found that imperfectly washed butter, containing a high percentage of casein, privided the most favorable medium of strong the such as the containing a proper percentage of casein, privided the most favorable medium of strong the such as th medium of growth and that a high-water content also encouraged the development of mould as did storage in very damp cellars; but practically all risks of damage from this cause were eliminated by the presence of 2.5 to 3 per cent. of sale in the butter, which corresponds to the use of 12 to 15 per cent. brine.

Print Butter Shrinkage

THE Cornell Experiment Station has been making some interest-ing investigations on the shrink-age of print butter and has issued the following summary as a result of the

1. The variation of pore space, which ranges from .5 of 1 per cent. to over 6 per cent. in freshly made butter, is important in the printing pro-

2. Print butter gradually loses

2. Print butter gradually loses weight in storage.

3. The rate of loss depends principally on the temperature and humidity of the storage room.

4. If the temperature is kept down to 50 dgrs. F. and the humidity is kept above 50 per cent. at least a continuous control of the storage proximate the limit set by 6 to 32 per poximate the limit set by 6 to 32 per poximate the limit set by 6 to 32 per poximate the limit set by 6 to 32 per poximate boxes.

5. If the temperature is 90 degrees F, or above, and the humidity is 85 F, or above, and the humidity is 85 F.

5. If the temperature is 90 degrees F, or above, and the humidity is 85 per cent. or below, the shrinkage will approximate the limit set by law in a space of 10 days to two weeks, even if the prints are packed in boxes.

6. The degree of shrinkage is not inversely proportional to the weight of the wrapper used, as is generally symmoscal.

supposed.
7. The degree of shrinkage decreases to a considerable extent when the prints are placed in carions. The other two methods of packing, however—leaving the prints dry after placing them in boxes, or sprinkling them with water—produce about the same effect on the degree of shrink-

8. In the average small store re-frigerator, the loss will approximate the limit set by law in a space of ten days when the prints are piled loosely on the shelves.

Eggs as a Sideline

HY not make the cheese fac-tories and creameries of the land also the central egg de-lots? Several factories in Canada pots? Several factories in Canada have already taken up eggs as a side-aline, and most of them are finding it alone capacity, and a boiler feed pump, in the handling of eggs at a cheese factory, however, is that the maker is usually too busy when the eggs are "A circular issued by the Dairy D rision, brought in in the morning to count US. Bept. of Agriculture.

them. Receiving the milk is job enough for one man. Perhaps this factor explains more than any other why so few factories, which seem to be logical e-or centres for their community, have not taken up this line of work.

munity, have not taken up this line of work.

Perhaps the difficulty might be solved in this way: Why should not each patron have a number and when he brings in a box which bears his number, the he brings in the morning in a box which bears his number, the the brings in the period of the wall of the receiving stand. It would be necessary to insist that round dozens of eggs only be sent in. In the afternoon, when there is more time available, the eggs could be counted, crated according to color and size, and shipped. At first, it might be necessary to insist that the period of the per

an occasional grading would be necessary.

The chances for most profit in the egg handling sideline is where the shipping station is near, and eggs could be sent daily to the city market. There are always fancy grocers who would pay a fancy price for fresh eggs received deily, and the trade might be made an advantage to both patron and maker.—G. F.

Hot Water in Creamery*

A CREAMERY that uses a steam engine and permits exhaust speam to escape unused is wasting a valuable by-product. Exhaust steam can be used successfully for heating milk, cream, boiler-feed water, wash water and the building. The heating of boiler feed water and wash water only will be considered in this circular. this circular.

this circular.

In the majority of small creameries the boiler is fed by means of
an injector, but this is not an economical apparatus for this work,
because it requires live steam for its
operation and cannot handle hot
water. For every 10 degrees F. that
water for every 10 degrees F. the
operation and cannot continuely
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and for each 10 degrees F. increase
and for each 10 degrees F. increase
in feed water temperature the boiler and for each 10 degrees F, increase in feed water temperature the beiler capacity is increased approximately one per cent. When hot feed water is used a constant pressure on the boiler can be more easily maintained, and there will be an additional saving of fuel stributchile.

and there will be an additional saving of fuel, attributable to even firing. The heating of feed water from a temperature of 60 degrees F. to that of 200 degrees F. by means of exhaust steam will reduce the fuel consumption about 13 per cent, or will reduce a 8500 fuel bill to \$430.

The use of exhaust steam for heating wash water will still further reduce the fuel cost. It is estimated that in a creamery making from 100,000 to 300,000 pounds of butter 100,000 to 300,000 pounds of butter annually a maximum of 800 gallons of hot water are used daily. It is customary to heat this water with live steam from the boiler. To heat so customary to heat this water with live steam from the boiler. To heat so much water from a temperature of 50 degrees F. to that of 107 degrees F. requires approximately 127 pounds of coal. When the heating is done with exhaust steam there is a net saving of 127 pounds of coal a day, or, if a coal water of 127 pounds of coal a day, or, if a coal water of 127 pounds of coal a day, or, if the save of 127 pounds of coal a day, or, if the save of 127 pounds of 127 this size the heating of the boiler feed water from a temperature of 88 degrees F. to that of 300 degrees F. will effect a further saving of approximately \$100 annually. An equipment, consisting of a 20 horse power heater, a hot water storage tank of 220 galactic water storage tank of 220 galactic water storage tank of 220 galactic and be installed for about \$300 and will effect an annual saving of \$136,





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