111 PAGE 2.

********************* Railway & S. S. Lines *********************** DOMINION ATLANTI RAILWAY -AND-Steamship Lines -TO. St. John via Digby -AND-Boston via Yarmouth "Land of Evangeline" Boute. On and after June 23rd the train service of this railway is as follows:

Express for Yarmouth 12.04 p.m. Express for Halifax 2.00 p.m. Bluenose for Halifax 12.57 p.m. Bluenose for Yarmouth 2.35' p.m. Accom, for Halifax Accom. for Yarmouth 5.50 p.m.

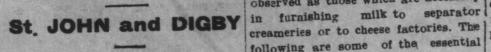
Midland Division

ed at the creamery. Trains of the Midland Division teave Windsor daily. (except Sunday) 7.45 a.m. and. from Truro at 6.50 a. ery in as good condition as that in better health, will give more milk 3.20 p.m. and 12.45 noon connecting at and Yarmouth.

Boston S. S. Service BOSTON-YARMOUTH SERVICE.

enough.

Beginning Sunday, June 23rd, 1912, the favorite Twin Screw Steel Steammouth daily, exceut Sunday, after arrival of Express and "Flying Bluese" Trains from Halifax, Windsor Junction and Truro. Returning leave fine flavored butter at the creamery. LONG WHARF, BOSTON, daily, exept Saturday, at 2.00 p.m.



General Freight and Passenger Agent



(By Geo. H. Barr, Chief of Dairy Divis on, Department of Agriculture,

7. Keeping the cream for several Ottawa.) days at a temperature over fif-The manufacture of butter in creamty-five degrees. eries or what is known as the gath-Cows drinking water from stagered cream plan is becoming more and nant ponds, or the leakage from more general throughout Canada. The harnyards. advantage of having fresh warm skim SARY TO PRODUCE FINEto avoid the risk of getting disease in their nerds from the mixed skim-FLAVOURED CREAM. milk from a larger number of farms, Fure Water .- The cows should have together with a lower cost of hauling at all times an abundant supply of

manufacturing the butter, makes the pure water to arink. When cows are system popular with many milk proswamps, muddy ponds ar sluggish streams and ditches, in which there On the other hand, the fact must be is decaying animal matter, including recognized that in most cases a their own droppings, there is a i conchange from the system of separating stant menace to their health and un-7.50 a.m. gathering the cream, has resulted in less the cows are in good health, they an inferior quality of butter being cannot give first-class milk. Moreover made, for the reason that the quality of the cream separated at the farms which collects on the legs, flanks and udders of the cows and falls into the when delivered at the creameries, is

other places where there are

roots or vegetables.

milk at the time of milking; is a dinot as fine as that from milk separatrect source of infection. Salt .- When cows have free access Cream which is separated on the farm can be delivered to the cream- to salt at all times, they will keep which is separated at the creamery. and the cream from this milk will

It is simply a question of the patron have a better flavour, and keep sweet onial Railway, and at Windsor with who skims his milk at home taking longer, than when they do not get express trains to and from Halifax proper care of the cream and having any at all, or receive it only at init delivered to the creamery often tervals. Milking .- Cleanliness in the stable

It is admitted by all creamery au-, is desirable at all times, but especthorities that finer butter can be ially at milking time should the stamade from cream which is sweet bles be clean and free from dust. The when delivered at the creamery, than udders, teats and flanks of the cow from cream which is sour and curd- should be brushed before milking.

led. It is also well known that any Only bright, clean tin pails should be taint that may be in the milk or used to milk in. Galvanized pails are ips "PRINCE GEORGE" and cream will be to some extent carried difficult to keep clean, and bad flav-"PRINCE ARTHUR" leave Yar- into the butter. Therefore, the pro- vours have been traced to their use. ducer will see at once the responsibil- THE HAND POWER SEPARATOR. ity resting upon him in securing a The hand-power cream separator is the most reliable and best method of In the production of fine flavoured skimming milk at the farm, and the cream, the same precautions must be only method that can be recommendobserved as those which are necessary ed. Nearly all the separators on the of the patrons from more and beiter

market will do efficient skimming if stock, and the quality of the butter creameries or to cheese factories. The properly handled.

following are some of the essential Handlin tor .- It is important that the separ- patrons keep the cream in earthen DOUBLE DAILY SERVICE. points:-FEEDS THAT WILL INJURE THE ator runs smoothly. Any trembling crocks, or in open pails. Crocks are (Sunday excepted.) or shaking of the separator while liable to get broken or chipped, and FLAVOUR OF BUTTER AND R.M.S. "PRINCE RUPERT" experiments conducted at the O.A.C. WHICH SHOULD NOT skimming will cause a loss of butter fat in the skim milk. Only special Dairy School, Guelph, show that BE FED TO MILCH From Digby From St. John. COWS. separator oil should be used, and it earthen crocks if chipped in any way, kept in the refrigerator was nearly is well to make a run about once in cause an undesirable flavour in the 1.55 p.m 7.45 a.m. 1. Turnips and turnip tops. three weeks, using kerosene oil on butter. Cream kept in open pails is Making connections at Dig-Rape or rye. by with express trains for 3. Decayed ensilage. all the bearings. In skimming, three things must be that reason is apt to become East and West and at St. 4. Leeks, onions or apples in large John with Canadian Pacific quantities. observed: (1) The speed of the separator must be maintained according tomed tin can about eight inches in trains for western pointe. OTHER CAUSES OF TAINTS IN CREAM. to the directions sent with it. The S.S. "YARMOUTH" 1. Cow's udders and teats in an only reliable way to uo this, is to From Digby From St. John. the crank by the watch. A low keep clean and handy to put into a From St. John 12.30 p.m. 3. Using unclean, wooden, galvan- speed means loss of fat in the skim- tank of water and ice. When two after arrival of C. P. R. milk. (2) The flow of the milk into lots are mixed, the cream should be from Montreal. From Digby ized or rusty milking pails. 4. Separating the milk in the the separator should be uniform. (3) well stirred. about 4. a.m. Improperly cleaned separators. The temperature of the milk should WHERE TO KEEP THE CREAM. 6. Keeping the cream in cellars or not be under ninety degrees, and for Keeping Cream in Cellars .- A great P. GIFKINS. General Manager. Kentville. FURNESS, WITHY & CO., LTD STEAMSHIP LINERS LONDON, HALIFAX & ST. JOHN, N. B., SERVICE. From Halifax From London. Steamer July 6 June 14-Kanawha to follow -Shenandoah From Halifax. From Liverpool last year. Steamer. July 10 June \$2 -Tabasco July 23 June 29 -Almeriana Aug. 6 Culy 13 -Durango FURNESS WITHY & CO., LTD., Agents, Halifax, N. S. H. & S. W. RAILWAY times as many prizes (108) in the 1912 FARMERS' PRIZE CONTEST "HUS you will have three times as many chances of winning a cash Accom. Time Table in effect Accom. Mon. & Fr prize. You do not have to use any certain amount of Canada Cement Mon. & Fri. June 17th, 1912. to win a prize. There are absolutely no "strings" to this offer. Read up There are twelve prizes for each Province (three of \$50; three of \$25; three of Stations Read down 15.50 \$15; and three of \$10) and you compete only with other farmers in your own Prov-Ly. Middleton AR. 11.30 15.22 11.58 * Clarence 15.06 ince and not with those all over Canada. 12.15 Bridgetown It makes no difference whether you have ever used cement. Many of last year's winners 14.41 12.43 * Granville Centre had not used it until they entered the contest. When you write for full particulars, we will 14.26 12.59 Grapville Ferry 14.10 send you, free, a book, "What the Farmer Can Do With Concrete," which tells everything 13.15 * Karsdale 13.50 AR. Port Wade Lv. 13.35 you need to know about concrete. It is absolutely free, and you are under no obligation to buy " Canada " Cement or to do anything else for us. WRITE your name and address on the coupon, and mail it, of use letter or post card, and we will send you at once the book and full particulars of the 1912 Prize Contest. *Flag Stations. Trains stop on signal. Address Publicity Manager CONNECTION AT MIDDLETON Canada Cement Company Limited WITH ALL POINTS ON H. & S.W. RY AND D. A RY. P. MOONEY

that reason, the best time to separate deal more than half of the cream sent the milk is immediately after milk- to the creameries is kept in cellars. the creamery, the loss of butter fat ing, A low temperature is also Our own experiments proved that we in the buttermilk will be greater if liable to cause loss of fat in the could not keep cream sweet for thir- the cream is sour than if delivered skimmilk. The faster the milk pass- ty-six hours, or for delivery every in a sweet condition. There is also a es through the separator the less com- other day, in cellars which were as greater loss of fat in pasteurizing plete is the separation, and a thin- cool as the ordinary run of farm thin cream than thick. All 2cream ner cream is given. One of the house cellars; also that the cream separated at the farms should test questions often asked by patrons is: when left uncovered developed a between 27 and 35 per cent butter fat. ents. and expect more next "Why does my test wary so?" When strong cellar flavour and the buiter

THE WERKLY MONITOR AND WESTERN ANNAPOLIS SENTINEL, BRIDGETOWN, N. S., JULY 24, 1912.

one knows that the speed of the ma- had a tendency to become rancid. chine, the flow of the milk, and the Keeping Cream in Water and Ice .-

emperature of the milk all affect the We have found that the easiest and While asking the patrons to make test of the cream, it is not difficult best way to keep cream sweet and improvement in their methods, we do to understand why it may vary con- clean in flavour is to put it in a shot not wish to relieve the creamery siderably. A variation in the test gun can and place it in a tank of owners and managers of their respondoes not recessarily mean any loss water and ice immediately after sibility to the patrons. They may to the patron. Every separator has skimming. We can recommend an in- see to it that the equipment of the milk for feeding purposes, the desire CONDITIONS THAT ARE NECES- some device for charging the test of sulated tank. This tank is made with creamery is such that the cream supcream. In most cases the adjustment a space of four inches filled with plan- plied is handled in the most effcient is at the cream outlet. If so, by ing mill shavings on all sides and manner; that the testing is done ac-

turning the cream screw in, the cream on the bottom, the cover also being curately and honestly, and that the insulated in the same manner. It is creamery is a model of creameries CAMPERS and a standing object lesson for the will be richer, and by turning it out, insulated in the same manner. It is creamery is a model of creameries f the cream will be thinner.

All the parts of the separator Such a tank is a little expensive, patrons. which come in contact with the milk but it is certainly a great saver of These conditions cannot be secured or cream should be washed in luke ice. An ordinary wooden tank is next or maintained unless there is a reaswarm water, to which has been add- best. All tanks should have covers, onable price paid for manufacturing. ed a small quantity of sal soda or as they help to keep down the tem- Modern creamery equipment is expenother cleansing powder, and then perature of the water and cream. sive, and it is an unwise policy on Confectionery, Biscuits, thoroughly scalded with boiling water Table IV shows the advantage of the part of the producers of cream to Jams. Marmalades and Lesping the cream in an insulated insist on such low prices for manufaceach time the separator is used .. Location of Separator .- In some tank with water and ice, compared turing that the creamerymen cannot cases the separators are placed in the with the best results we could get afford to equip the creamery with cow stables. This may be a conven- by keeping it in the cellars. The modern appliances or to collect the ient a rangement, but it is not by any cream was divided into two lots im- cream at least three times a week.+ Corn, Peas, Beans, Red means a proper place for separating mediately after skimming, one lot Cheap creamery equipment and cheap Clover. Salmon (ISC. Can). milk, unless a special room, well ven- set in the cellar and the other set in buttermakers may be very expensive Large Bottle Pickles (15c.)

tilated and lighted, is partitioned off water an to exclude the stable adours and

Treat

These

had thre

cooled in

Keepin

The f

Refrigerator

Ice and water

average temperature of the cream

dust. This room should have a smooth cement floor, which can be easily cleaned.

Cooled Advantages of a Rich Cream .- It is doubtful if there is any one thing Set in which injurgs the quality of gathered Cooled cream butter so much as thin cream. Set in Thin cream is responsible to a large

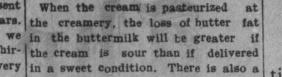
extent for the old sour cream flavour so frequently found on gathered cream butter.

Many patrons have the idea that a large amount of cream shculd give a Some po correspondingly large amount of mon- ing the ey, forgetting that they are paid only frigerate for the butter fat in the cream, or ming. the butter made from the fat.

If all the cream sent to cream sults of gathering creameries tested thirty per two lots cent. fat, it would mean thousands of water dollars of extra money in the pockets refrigera

would be very much improved.

Vessels for Holding Cream .- Many



THE CREAMERY OWNER'S RESPONSIBILITY.

Is the day our institutions will re-open in all departments. Last year we had over 500 calls for stud-

year. Now is the time to get our syllabus, rates, etc.

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-AND-

PICNICKERS

d ice.	in the end to cream producers. Both	Canned Fruits, Cold Drink
TABL	E IV.	Bread, Cake and Pastry
nent given the cream. Length ' time k	ept. of cream. of cream.	
n tank 36 h		Mrs. S. C. Turner
ellar 26		
n tank		TTT A STATET
ellar	" 63.7 .505	WANTED
e times as much acid as that water and ice. g Cream in a Refrigerator ople have recommended cool-	creamerymen and patrons should re- member that a reputation for finest gcods will ensure the highest cur- rent price and often a premium in ad- dition. This enviable position can only be reached by every one doing	A LARGE QUANTITY OF HIDES, PELTS, CALF SKIN
lowing table shows the re- dividing cream equally into , cooling one lot in ice and nd the other in a first-class tor.	his or her best and by having the closest co-operation and harmony in all the work relating to the cream- ery and the farm.	
TABLE V.		MCKENZIE CROWE & Co., Lt

Lbs.

221

178

.145

.170

.190

.210

.510

.150

310

.380

.165

.390

.415 p.c.

.230 p.c.

For the Patron.

Cream kept in Average temperature. Average acidity. Ice used

.53.9 deg

54.8 **

There were 43 lbs. more ice used in SUMMARY OF

refrigerator than in the water. The IMPORTANT NOTES. *



1. It pays to make cows comfortone degree lower, yet the acidity was almost twice as high. This is no able at all times. doubt due to the fact that ice and 2. It pays to treat cows with inexposed to the air too much and for water will cool the cream much fast- variable kindness. They should never tainted. A well soldered plain bothe driven fast or worried by dogs. er than cold air. 3. Pure water should be provided The covers were kept on the cream cans in both cases and there was for the cows, and they should be prounclean condition at milking only reliable way to uo this, is to cream. This style of can is easy to count the number of revolutions of cream. This style of can is easy to count of the cream at any time. Both lots of butter scored 42.5, 4. A box or trough containing points for flavour when fresh. When salt, to which the cows have free acthree weeks old, the butter from the cess, should always he provided. water and ice cooled cream scored 5. Care must be taken to avoid 40.77 points and the other 39.88 feeds that will taint the milk. 6. The udders and flanks of the points. Table VI shows the effect that dif- cows should always be washed or ferent temperatures have on the acid- brushed clean before milking is ; comity of cream kept for different periods, menced. TABLE VI. Average temp, cream. Average per cent acid Length of time kept. .50.6 deg. 36 hours 55.0 " .57:5 " 36 58.5 36 " 36 " A .53.0 " 60 " 60 ... root 47.5 " cellar 84 It will be observed that when the 7. Milk from a freshly calved like this czeam was cooled to 55 degrees soon cow should not be skimmed until afwon a prize after skimming, it kept perfectly ter the eighth milking. sweet for thirty-six hours, or for de- 8 Only cream from cows in good livery to the creamery every other health should be sent to the creamday. This temperature can be se- ery. cured at most farms with the ordin- 9. Tin pails only should be used. THE drawing was made ary well water if an insulated tank is 10. Cream delivered every other from a photograph of used. If this temperature cannot be day should be cooled as quickly as the root-cellar with which D. secured with water a'one, ice should possible to 55 degrees and kept at that temperature or lower, If kept A. Purdy, of Lumsden, Sask., won be used. To keep cream sweet for eighty-four longer it should be cooled to under a cash prize in last year's contest. In that last hours, or for delivery twice a week, 50 degrees. contest there were 36 prizes. There will be three it must be kept down to forty-eight 11. Warm cream should never be degrees. To do this, ice must be used mixed with cream already cooled. The lot kept eighty-four hours at fif- 12. Every patron sending cream to ty-four degrees was cooled in an in- a creamery should provide ice for cool sulated tank with water from the ing it. well at forty-eight degrees and 13. All vessels, including separator changed night and morning. It was bowl, used in the handling of milk or quite sour when delivered at the cream, should be thoroughly cleaned immediately after they are used, by We were able to keep cream per- washing in luke warm water and creamery. fectly sweet for cighty-four hours, then thoroughly scalded with boiling but it did not have the clean pleas- water. A brush is preferable to a ant flavour which is found on cream cloth for washing tinware or separators. kept for shorter periods. For Creamery Owners. Keeping the cream for longer than 1. Pastourizing the cream will give two days at the farms has, no doubt much to do with the old cream fla- a better keeping quality of butter. vour so commen in gathered cream 2. The use of a pure culture or butter, and we can ccarcely expect to starter in gathered cream will imhave this defect remedied so; long as prove the kleping quality of the butcream is gathered less than three ter. (Continued on page 6) times each week.



"BRINY DEEP" SERGE FOR MEN: BLACKS AND BLUES. GUARANTEED. ASK DYE TO SEE THE STAMP-"BRINY DEEP SERGE" ON EVERY THREE YARDS.

and and the second