



FARM NEWS

APPLE PIE FILLINGS

Canned apple pie fillings have been on the market, both in Canada and the United States, for a number of years. The popularity of this product with the consumer depends on high quality and this depends on a number of factors, says A. W. Moyle, Fruit and Vegetable Processing Laboratory, Summerland Experimental Station, B.C.

Condition of the fruit is of prime importance; apples should be firm and in good eating condition. Variety is also important. In this respect Jonathan has consistently scored high. Newtown, Stayman, Winesap, McIntosh and Wealthy produce a satisfactory product. On the other hand, the Delic-

ious variety because of its low acid content, makes a relatively poor filling unless acidified or blended with some other fruit.

Quality is further associated with high fruit content and the kind and amount of thickener used. The fruit content should range between 70 and 80 per cent. In an apple pie filling a large portion of the sectors should remain whole and firm. The product should remain the natural attractive colour and flavour of the apples themselves, which depends to some extent on the variety used. The colour will vary from a translucent white with the McIntosh variety, to a deep yellow with varieties such as Jonathan and Newtown. In appearance the filling should be

bright, with no excessive weeping. Excessive free liquid will make a soggy bottom pie crust. The other extreme, a filling that is too stiff, is caused by using too much thickener or thickening agents. A pie made from a filling of this sort will have an objectionable filler or thickener taste.

Some processors add benzoate of soda as a preservative. If an adequate process has been used this should not be necessary. Far too often the use of this preservative results in a masking of the fruit flavour and imparts a benzoate taste to the product.

A basic formula of 80 per cent fruit, 20 per cent cane sugar and 1 to 5 per cent thickener has consistently resulted in an excellent product. Locust bean gum, wavy maize, a modified corn starch, arrowroot starch and Minute tapioca, used singly and in blends are the most efficient stabilizers tested so far. In some instances pie fillers of good consistency have been made without the addition of any thickener. This depends, however, on the condition of the fruit being used.

With regard to the effect of storage temperatures on quality and consistency, tests to date have shown canned apple pie fillings stored at room temperatures—65 to 72 degrees—to be stable for at least nine months.

X-Raying Pigs

They are X-raying pigs at Lacombe Experimental Station, Alta., and no doubt people will wonder why! It is an interesting story and this is how the research men explain the project.

At the present time in order to get a picture of the genetic possibilities of a litter of pigs it is necessary to take a representative group from the litter, generally four pigs, two barrows and two gilts selected at random, and subject them to a feeding test which culminates in slaughtering the pigs. This test gives a record of the group in rate of gain, feed efficiency, and carcass quality and together with litter size and weaning weight can be used as a basis of selection. Selection, of course, is the basis of improvement. The best pigs from the best performing litters must be selected as breeding stock to produce each succeeding generation.

All of these records, with the exception of carcass quality, can be obtained without slaughtering any pigs. However, carcass quality is possibly the most important record of all. If we are to produce a higher percentage of lean bacon hogs we must select for and improve this characteristic. If we could evaluate accurately the carcass quality of a pig without having to slaughter, we would have a much greater number of pigs to select from and consequently be able to make a better and faster improvement.

Hence, the experimental work in X-raying pigs at Lacombe. A research project is underway to ascertain whether the bacon quality or potentiality of a pig can be determined without slaughtering it, by using X-ray techniques which have to be developed and studies made of the relationship of the relative fat and lean as measured through X-ray equipment, and the fat and lean as determined by cutting the carcass. This will be done with a large number of pigs at different stages of growth. If a close relationship can be established and the best stage of growth at which to X-ray determined, then a simple measure of the length of the live pig along with the relative fat and lean from an X-ray should give a good estimate of its bacon quality or potential.

With this information, the best pigs in carcass quality could be selected as breeding stock from the best litters from the standpoint of litter size, weaning weight, rate of growth, and feed efficiency. These are the factors which determine economy of production.

This phase of the work has just started at Lacombe, says J. G. Stohart, senior animal husbandman at the Station. It will take some time to appraise all the possibilities. It is another example of research, however, which may contribute importantly in the development of genetically better breeding stock—better from the standpoint of overall economy of production.

Feeding The Beef Cattle

In feeding beef calves individually from weaning at six months of age it has been found that bulls gained most rapidly, steers ranked second and heifers third. The economy of gains was in the same order.

When starting calves on grain feeding at the Experimental Station at Scott, Sask.,

the practice followed in most cases is to give two pounds of hay to each pound of grain mixture for the first few weeks. If the hay is not fully consumed the grain mixture is reduced accordingly, and increased later as the calf becomes accustomed to the concentrate.

During the winter of 1953-54 only bulls and heifers were fed individually at the Scott Station. The average gain for 7 bull calves in 174 days was 2.36 pounds per head daily and for seven heifers in 230 days 1.62 pounds. The grain requirement per hundred pounds gain was 416 pounds for bulls and 541 for heifers. The hay was gradually reduced in proportion until the quantity of grain mixture was from three to four pounds to each pound of hay at the end of the feeding test.

The object in feeding more hay at the beginning is to help prevent the animals from going off feed which often happens at first unless special precautions are taken. The object in reducing the proportion of hay as the feeding period advances is to get the calf to eat more grain.

The average daily grain intake reached a maximum of 14 pounds for heifers, and 18 lbs. for bulls. For the purposes of the test the bulls were fed until they reached 900 pounds and the heifers 800 pounds. The average time required to reach these weights was 374 days for bulls and 441 for heifers.

The animals were hand fed, but unless the feeder is experienced in hand feeding for maximum gains and the same portion feeds every day, and at the same hour, a more satisfactory plan would be to use the self feeder.

THE ORIGINAL

Rexall

ONE CENT SALE

COMING SOON

Houston's The Rexall Drug Store

STOUFFVILLE

PHONE 229

BLOOMINGTON

Mr. and Mrs. Straugh of Oshawa were Sunday guests of Mr. and Mrs. Frank Straugh and family.

Mr. and Mrs. Robert Johnson have returned from a trip to St. John, N.B., with Mr. and Mrs. A. Closson of Stouffville.

The grain mixture for this test was approximately two-thirds oats by weight and one-third barley with ten per cent linseed meal at first. This proportion was gradually reversed by the middle of the feeding period with the linseed meal being reduced to five per cent.

The Johnsons were visiting their daughter Joyce and her family and although they were there when the recent hurricane did so much damage they luckily escaped any ill effects.

The church was beautifully decorated with flowers and fruit for the Harvest Home Service on Sunday. The service was conducted by the pastor, Rev. W. G. Brown and Miss Alta Fockler and Mr. Eugene Baker sang a duet. In the Sunday School the Miss. Supt., Miss Alta Fockler, conducted a splendid program of songs by the Junior Girls and a reading by Mrs. G. W. Brown telling of the work in the Soudan Interior Mission Field.

Master Billy Vaughan suffered a nasty accident while playing Saturday when a stick pierced the roof of his mouth necessitating a few stitches.

Mr. and Mrs. Dennis and family of Toronto were visitors of the A. W. Story's on Sunday.

and Mrs. Allin spent Sunday with Mr. and Mrs. Fred Allin and family.

Mr. and Mrs. Roy Morley, Mr. and Mrs. Grant Morley and Billie were Sunday dinner guests of Mr. and Mrs. Russel Hunt.

Mr. and Mrs. Robert Carr were Sunday supper guests of Mrs. George Kitto, Newmarket.

Mr. and Mrs. Jack Irwin and family were Sunday visitors of Mr. and Mrs. Willis Jarvis, Blackwater.

Mrs. Mitchiner, Toronto, visited Mr. and Mrs. C. Powell over the weekend.

The average person reached 60 before he learns not to drive that fast.

Mr. and Mrs. Herbert Oliver

Wesley Women's Association will meet on Wednesday, Oct. 6, at the home of Mrs. R. Carr. The Missionary topic will be in charge of Mrs. A. Starr and Mrs. C. Powell.

Mr. Jim Sleeth, Toronto Bible College, spent the weekend at his home here.

Mr. and Mrs. Herbert Oliver

Custom Corn Picking

2 Row Mounted Picker — 90% Husking Guaranteed Elevator and Wagons Supplied.

— \$6.00 per Acre —

ASHMORE REESOR
Phone MARKHAM 57w1

Headford Dump

Residents of the Township of Markham take notice that the Headford Dump will be open for your convenience on the following dates:—

OCT 1st & 2nd; OCT. 8th & 9th

No decayed vegetables, dead animals or birds, inflammable material or old wire fencing permitted.

By resolution of Markham Township Council,
Chas. Hoover, Clerk.

An Egg A Day Keeps the Axe Away

And for those extra eggs that build up the Profits—Feed . . .

MARMILL LAYING MEAL 18%
In Mash or Pellet Form

The Quality Feed That Gives Results. BEST BY TEST FOR TWENTY-FIVE YEARS. We manufacture a complete line of Poultry, Dairy and Hog Feeds, fresh every day, and carry Grit, Oyster Shell, Peat Moss and Poultry Equipment at all times.

— Phone your order for prompt delivery —

Marmill Feeds may be purchased from:—

Central Feed Store, Stouffville and
Roy A. Brillinger, Gormley

Reesor's Marmill Limited

MARKHAM PHONE 9600

"Miss Markham Fair" CONTEST

The Markham Fair Board is looking forward to naming "MISS MARKHAM FAIR" of 1954. The contest is open to young ladies who have not been in a similar contest before. The prize money is 1st - \$75, 2nd - \$50, and 3rd - \$25. "MISS MARKHAM FAIR" and the 2nd and 3rd prize winners will be present at the opening ceremonies on Saturday, Oct. 2nd at 2 o'clock, also at the dance in the evening. The judges will be a director of the Walter Thornton Model Agency, Norman Johnson of the Toronto Evening Telegram, and Mrs. Deane Hughes of Unionville.

(Entry Form)

"MISS MARKHAM FAIR" CONTEST ENTRY FORM

Name .. Miss

Address

Entrant to be dressed in day time dress.
Entrant to be in front of the grandstand in field for judging at 2.30 p.m. on Friday, Oct. 1st.
Entry by form or letter to be in hands of Sec'y R. H. Crosby, Markham, by midnight, Sept. 30th.

FREE! FREE!

Exquisitely Beautiful

DOLLS OF ALL NATIONS

at your

DOMINION STORE IN STOUFFVILLE

EVERY \$39.00 IN CASH PURCHASES

AT DOMINION ENTITLES YOU TO YOUR CHOICE OF A BEAUTIFUL

"Doll of All Nations"

MORE THAN 12 DIFFERENT DOLLS TO CHOOSE FROM



SCOTCH GIRL

Do all your shopping at Dominion—save every green cash register receipt you get—shop today, tomorrow, every day of the week at Dominion see how you can cut food costs, and at the same time get an exciting DOLL OF ALL NATIONS as a gift.



MAID-OF-HONOR

Be sure to see the display at Dominion this week. Start saving your green cash register receipts. Remember every \$39.00 in purchases entitles you to a DOLL OF ALL NATIONS, absolutely FREE. You don't have to make all your purchases at one time—simply save every green cash register receipt you get. Before you know it, you will be on your way to a wonderful array of DOLLS OF ALL NATIONS.

THIS OUTSTANDING OFFER STARTS MON., SEPT. 27—

DOMINION STORES LIMITED



FRENCH GIRL