

## "OFF" BUTTER FLAVORS

BY DON P. SHANNON.

Succulent feeds in the ration of dairy cows have come to have such importance that many crops not grown primarily for this purpose may enter into the ration. Cabbage and potatoes, though not generally grown for dairy feeds, are often fed to dairy cows as a means of supplying succulence and disposing economically of products that are otherwise unmarketable.

Like other succulent feeds, cabbage and potatoes may have a tendency to impart undesirable flavors and odors to the milk if fed under certain conditions. Tests have been conducted to determine the extent to which these crops affect the flavor of milk and how they may be fed and the milk handled so as to minimize such effect.

It was found that on the average when dairy cows consume as much as 14.3 pounds of cabbage within one hour before milking time, abnormal and objectionable flavors are produced in the milk. An increase in the amount of cabbage fed intensifies these flavors. An average of 25 pounds of cabbage may be consumed immediately after milking, however, without any objectionable flavors in the milk becoming noticeable. Some of these flavors may be eliminated by proper aeration of the milk, and others greatly reduced.

The feeding of 14.8 pounds of potatoes an hour before milking may flavor the milk to a slight extent, but



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All of us become tired of our morning cereals. Shavings of fresh maple sugar spread over it will make it a very appetizing dish. Children all love maple sugar.

To make glue that will resist the action of water, soak ordinary glue in water until it softens; remove it before it has lost its original form, and dissolve it in linseed oil over a slow fire until it is of the consistency of a jelly. It can be used for joining any kind of material.

## THE CHIEFTAIN'S DAUGHTER

BY EDWIN H. NEVIN.

The Bechuanas of South Africa are divided into many tribes. Two of these tribes carried on war for some years, each side trying to kill every man, woman and child of the other side, and practicing the most fiendish cruelties. The names of these two warring tribes were Barolong and Bakueni.

The daughter of the chief of the Bakueni was gathering berries by the river's side. She was alone and far removed from her father's village.

She did not imagine that any enemy was near, but a wicked old warrior of the Barolong tribe was just at that time creeping along the borders as a spy, and he saw her.

She had never done him any harm, but he hated her because she was one of the Bakueni. He crept like a coward upon his hands and knees, and when he was within a short distance of her, he sprang upon her like a tiger, and with his assegai cut off both her hands above the wrists. He mocked at her sufferings, and tauntingly asked in his native dialect:

"U tla 'mpona kai? Rumela!"

The old man, being stupefied by hunger, did not recognize or remember the words.

A servant was cooking the food while this interview was going on.

Her mistress turned to her and told her to bring some of the food in a dish, and just then the mistress threw back her kaross, and uncoveted her arms.

There were no hands to be seen.

She was the same girl whose hands this wicked old man had cut off so long before.

She said to her servant:

"Give the food to that man, although he does not deserve it. It was he who cut off my hands when I was a girl, but I will not revenge myself; he is now starving."

He little thought we should thus meet each other again.

Then speaking to the old warrior she said:

"There! take and eat! U tla 'mpona kai? Rumela!"

What the old man felt under this display of generous forgiveness, it would be difficult to say. The noble conduct of the chief's daughter has never been forgotten by the Barolong tribe.

To this day, any one of them

may be restrained from an unkind

action by the other party exclaiming:

"U tla 'mpona kai? Rumela!"

## S.S. LESSON

November 1. World's Temperance Sunday. The Fight Against Strong Drink. Ephesians 6: 1-20. Golden Text—Be strong in the Lord and in the power of his might—Eph. 6: 10.

### ANALYSIS.

- I. SPIRITUAL DANGERS, 10-12.
- II. THE NEED FOR SPIRITUAL ARMAMENTS, 13-20.

### INTRODUCTION.

Our lesson to-day comes from the closing section of the Epistle to the Ephesians. The apostle has reached sublime heights in this letter with his doctrine of the spiritual unity of Jew and Gentile in Jesus the Redeemer. He portrays the captivating vision of one Church throughout the world, deriving its life from Christ as head, and filled with the fulness of God. Then he passes to the consecration required of Christians in the various walks and relations of life, those of parents and children, husbands and wives, masters and servants.

Finally, he shows how, in face of the invisible and desperately subtle powers of evil in the world, every Christian must serve like a soldier at his post, wearing his spiritual armor, not carelessly throwing it aside as we are tempted to do. He describes what that armor is, and so we have the familiar and beloved picture of the Christian soldier, unit of the Church militant, watching at his post. The reader will remember how Gideon of old was commanded to select for service only those soldiers who were vigilant, and who kept grasping their armor, Judges ch. 7. The apostle's thought is, that in a world full of spiritual temptations the Christian ought always to be at his best.

### I. SPIRITUAL DANGERS, 10-12.

V. 10. As Joshua in the ancient days was called to be strong and of a good courage (Josh. 1: 9), so the Christian is called to be strong, not indeed, in his own strength, but in the mighty strength of his Lord. The apostle knows that all power has been given to Christ, and that he must yet reign over all the forces of darkness, 1 Cor. 15: 25-27. This thought is to give the Christian moral and spiritual courage to stand his ground unflinchingly.

V. 11. The reason for vigilance is that Satan is continually using "wiles" or stratagems to take the Christian off his guard.

V. 12. For it is not as if we had to fight only against visible opponents of "flesh and blood."

Sometimes governments and peoples take up an attitude of hostility to Christianity, but then we know what we are up against. The really terrible, relentless, and unsleeping foes of Christ are invisible.

They are not human "flesh and blood,"

but spirits and demons. The apostle believes that the fallen angels and other agents of Satan dominate the present evil world, and keep up an incessant fight against the people of God.

These angels and the Satanic spirits are the "principalities and powers and rulers of this dark world," of which he bids us beware.

### II. THE NEED FOR SPIRITUAL ARMAMENTS, 13-20.

V. 13. Consequently, the Christian would need to grasp and to wear the whole armor of God, all the means that is, which divine religion provides for our spiritual defence and efficiency. It is not enough to have a helmet, if we have not also a shield and a sword. Some Christians are naturally

## SHORT CUTS TO YOUR CHICKEN CANNING

BY INA SIGRID LINDMAN.

This is the time in the year when the progressive farm woman cuts her poultry to save the expense of feeding the surplus cockerels and the non-laying-hens.

### CUTTING FOR PACKING.

1. Cut carcass into two parts, cutting through cartilages on the other side.

2. Remove oil sac at end of back; cut back in half, cutting between second and third ribs.

3. Cut off white meat on each side of the "keel" or breast bone.

4. Remove heart, liver and gizzard from entrails.

5. Spread out the pieces on tray or cutting board, to pack quickly into clean hot jars.

### PACKING THE CHICKENS.

1. First place in a drumstick.

2. Place thigh next to drumstick.

3. Place two wings next to the thigh, fitting the elbow of one wing into the other.

4. Place the neck portion in centre of jar with rib end down. This acts as a support for the remaining pieces and also allows heat quickly to penetrate centre of jar.

5. Cover the neck piece with back.

6. Spread white meat on top of back.

7. Fit in remaining pieces completely to fill jar.

8. Add two level teaspoonsfuls of salt to each quart jar.

9. Place jar ring; partially seal jar; sterilize.

### Feeding Bees for Winter.

To winter a colony successfully, they should have 50 lbs. of food in the hive when put away for winter. This would make a ten frame Langstroth hive-body with bottom board and inner cover weigh approximately 70 lbs. To feed sugar syrup for winter, inverted ten lb. honey pails with fine perforations in the covers are the best feeders to use. If these are not available, however, Mason fruit jars with screw tops and two thicknesses of cheese-cloth used in place of the solid top will answer the purpose. These feeders are placed inside an empty hive-body and are inverted directly on top of the brood frames with a bag or quilt over the feeders to retain the heat while they are on the colony. The feeding is best done in the evening and the entrance of the colony should be reduced by at least one-half. The best time to feed is any time after Oct. 15th and a good colony will take down 30 to 40 lbs. of syrup in one night, if so much is needed. The syrup is best made of any white granulated sugar, two parts of sugar to one of water, by measure or weight. If these proportions are fairly exact and every granule of sugar thoroughly dissolved by placing it in hot water and constant stirring, there will be little granulation of the syrup afterwards. If the above directions are followed, the colony will not only be in good shape for winter, but should not require any more attention, so far as the food is concerned, until May of next year.

### Factors in Milk Contamination.

In the report of the comparative recently organized division of Bacteriology of the Dominion Experimental farms, covering the year 1924, it is shown that the factors that stand out prominently in the contamination of milk are, first, carelessly cleaned pails, and, secondly, the health and cleanliness of the animal itself. Pails should be carefully cleaned and well dried. Care should also be taken to see that no dried manure particles get into the pail during milking.

Dr. A. Grunt Lechhead, the Dominion Agricultural Bacteriologist, who is responsible for the report, which can be had at no cost on application to the Publications Branch of the Agricultural Dept., Ottawa, deals with other factors that are apt to cause milk contamination. Tests have been made at the Central Experimental Farm to ascertain how the milk is affected and statistical tables are supplied showing to what degree milk may be contaminated by unsanitary conditions pertaining to the milker, beast, stable and utensils. A "clean" pail, a covered pail, and a clean animal, remarks the doctor, are the big things in producing clean milk. A study is in addition given of bacteria producing a bitter flavor in milk, of the microbiology of frozen soil and of flax retting. Cleanliness is next to godliness in agriculture, the same as in other things.

### Plow Thoroughly.

Last fall, owing to the very dry weather, it was difficult to plow corn stubble well, and consequently many corn borers were able to survive in the uncovered stubble and corn remnants.

At length he reached the village of the chief of the Bakueni, and entered the inclosure before the door of the chief's house.

A young woman was sitting near the door. She was dressed in a tiger skin kaross, which none but the members of the royal family are allowed to wear.

The old man addressed his petition to her in the most humble terms, and begged her to give him a little food as he was dying of hunger. She answered him:

"E! u tla 'mpona kai? Rumela!"

The old man, being stupefied by hunger, did not recognize or remember the words.

A servant was cooking the food while this interview was going on.

Her mistress turned to her and told her to bring some of the food in a dish, and just then the mistress threw back her kaross, and uncoveted her arms.

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### Good Milking Stool.

To make a milking stool, use a piece of two-inch plank for seat, use legs about two inches in diameter, dressed down to one inch to fit in one-inch holes in the bottom of the seat, and out. Then harrow it over to even it, a band of strap iron, one inch wide to hold the rail. There is no hard and fast rule as to length of legs for one man may, like a high stool, another

If you wish, you can put a cushion on the seat. This can be made of some pieces of burlap held in place with tacks or shingle pins. Or let the edges go over the seat and fasten under the strap iron.

When a cream separator is running the bowl should spin like a top with no vibration. If the bowl vibrates, see if the bearings are worn or loose.