

A NEW SUMMER BEVERAGE

Grapefruit Juice Easily Bottled--Simple Method of Making By-product.

A simple method of bottling the juice of grapefruit for use in making acid beverages is advocated by the department as a means of gaining a useful by-product from hundreds of thousands of cases of grapefruit which now are wasted. An investigation was undertaken at the urgent request of Florida grapefruit growers who reported that the market during the season would not take up a large proportion of the grapefruit crop, and asked the department to determine the possibility of utilizing the fruit or its juice in some profitable way.

All that is necessary, according to the Government's fruit specialists, is to bring the grapefruit juice to the boiling point in a porcelain-lined or enameled kettle, pour it while still hot into bottles, which then are hermetically sealed. The juice when so handled will keep indefinitely, and provides a base for grapefruit-ade or other acid beverages having the characteristic acid, somewhat bitter, flavor of the fruit. Experiments show, however, that it is highly important that the bottle be completely filled so that no layer of air be left between the top of the juice and the cork or seal. Where air in any amount comes in contact with the top of the sterilized juice it will cause the juice to change its color. In handling the juice it is particularly important that it be kept from coming into contact with iron or other metals easily acted upon by acids.

The investigators found, also, that it was possible to freeze the grapefruit juice into solid ice and then, by whirling the ice in a centrifugal machine, to take out a large part of the water and leave the solids and flavoring matter of the fruit. This freezing and concentrating of the juice greatly reduces the bulk and makes a product which can be sterilized by heating and kept indefinitely. Care must be taken to keep the juice from coming in contact with iron.

Those who wish to make a clear juice may filter the grapefruit juice before it is heated by adding to it from 2 to 3 per cent. (about 3 ounces avoirdupois to the gallon) of infusorial or Fuller's earth well washed with hot water. The mixture is then forced through a nonmetallic filter press and the clear juice reheated and boiled. With the freezing process the juice is filtered after concentration, about twice

the amount of infusorial or Fuller's earth being used per gallon of concentrate.

The chemists, in connection with this bottling of grapefruit juice, notify the public that the same process is not suitable for bottling the juice of oranges and lemons, which will not retain their flavor if handled in this way.

While as yet, as far as known, there is no commercial market for sterilized grapefruit juice, it is believed that many persons will find this juice, with the addition of water and sugar, a pleasant variation from lemonade or limeade. Those who like grapefruit should find the beverage inviting. The method is so simple that those in regions where grapefruit are cheap and plentiful can prepare this product on a small scale with ordinary household appliances.

Using Cottonseed Meal In Place of Part of The Corn In Feeding Horses

A reader says he is feeding his horse corn fodder (blades) and 30 ears of corn a day and wants to know how much cottonseed meal he should feed and by how many ears of corn he can reduce the present ration.

If the 30 ears of corn are of a size that 112 will make a bushel, then our reader is feeding 15 pounds of corn daily; but it is more likely that it will take 140 ears to make a bushel of shelled corn, and in such case he is only feeding 12 pounds of corn. We suggest reducing the corn ration one-fourth and putting in the place of this corn, from one and one-half to two pounds of cottonseed meal. In other words, about eight ears of corn may be left out and from two to two and one-half pints of cottonseed meal put in their place.—The Progressive Farmer.

598,907 Pounds Of Leaf Tobacco Sold In April

Raleigh, May 12.—The total sales of leaf tobacco on the markets in this State for the month of April aggregated 598,907 pounds, compared with total sales of 1,753,536 pounds during April, 1914. Of the sales for April of this year, 510,351 were first hand for the growers. Winston-Salem led with 310,863 pounds and Reidsville was second with 170,179 pounds. The other markets reporting sales and the amount of each are: Durham, 80,907; Madison, 112,236; Greensboro, 10,966; Mount Airy, 6,691; Leaksville, 2,843; Wendell, 3,220.

Lame Back.

Lame back is usually due to rheumatism of the muscles of the back. Hard working people are most likely to suffer from it. Relief may be had by massaging the back with Chamberlain's Liniment two or three times a day. Try it. For sale by all dealers.

CLAY COUNTY LEADING

Doing Best Work Registering Births and Deaths.

From a report just issued by the State Board of Health, Clay county is perhaps doing the best work in registering all her births and deaths. For the first quarter of this year she leads with an annual rate of 46.0 births per 1,000 population. Yancey is her close rival. Other counties doing good work are Dare, with a rate of 43.4; Mitchell, 43.2; Martin, 41.6; Gates, 41.2 and Madison, 40.7. The counties showing the lowest birth rate are Craven with a rate of 11.8; Currituck, 12.2; Camden, 13.1; Robeson, 13.4, and Bertie 13.8.

These counties, we must believe, have not awaked to the necessity of reporting all their births and deaths. Probably they are not aware that the Vital Statistics law of the State is not sleeping. Only within the last six weeks were twenty-five prosecutions made of doctors and undertakers who failed to report births and deaths. That these counties may wake up and not be caught napping, is merely a gentle warning.

It will be remembered that Clay county has a population less than 4,000, but with a rate of 180 births a year, she will soon catch up with other counties, at least in point of population. At the above rate, Dare will increase her population during the year 212, Mitchell, 392; Martin, 784; Gates, 432 and Madison, 820. Yancey will increase hers 572; Craven only 312 and Currituck only 100.

Clay and New Hanover report the greatest number of their deaths. Other counties reporting well are Vance, Wilson and Transylvania. Counties reporting the fewest number of their deaths according to their population are Craven, Cherokee, Swain, Stokes, Pamlico and Watauga.

A county reporting a low death rate and at the same time a low birth rate indicates one of two facts—either that the county itself is at the point of stagnation or that its doctors, undertakers and midwives are not on their jobs as county officials.

Soil Requirements Of The Apple.

The statement that "a given variety of apple, for the most successful growth within its general climatic region, requires a certain kind or condition of soil" seems incontrovertible, inasmuch as it is so well substantiated by orchard results under a wide range of conditions. The reason why this should be so is not so easily stated. It seems to depend fundamentally upon the waterholding capacity, or rather the mixture coefficient, of the soil. The capacity of a soil to hold capillary water, which is the only kind plant growth can use, depends on (1) the soil texture, meaning the size of the soil grain, (2) the soil structure or the grouping of these tiny grains into clusters, thus making it granular; (3) the amount of humus in the soil; and (4) the degree of soil tilth, which is a combined effect of the foregoing and tillage.

Before the heat of summer becomes too great, you had better order that ice box. Any size you want at low prices. Remember that we can furnish the material to build that house also at saving prices to you. DAN RIVER LUMBER CO., Walnut Cove, N. C. tf.

How Mrs. Harrod Got Rid of Her Stomach Trouble.

"I suffered with stomach trouble for years and tried every way I heard of, but the only relief I got was temporary until last spring I saw Chamberlain's Tablets advertised and procured a bottle of them at our drug store. I got immediate relief from that dreadful heaviness after eating and from pain in the stomach," writes Mrs. Linda Harrod, Fort Wayne, Ind. For sale by all dealers.

Tri-Weekly Atlanta Constitution and Progressive Farmer, both one year for \$1.00. Save 1-3 to 1-2 on all other magazines and periodicals. Write for my big clubbing catalog.

UPTON WILSON, Madison, N. C. 7ap6w

The Bank of King,

at King, in the State of North Carolina, at the close of business May 1, 1915.

RESOURCES

Loans and discounts	\$18,063.85
Banking House, Furniture & Fixtures	1,889.99
Demand loans	124.41
Due from Banks and Bankers	6,305.85
Cash Items	170.10
Silver coin, including all minor coin currency	738.70
National bank notes and other U. S. notes	2,114.00
Stationery, etc.	97.90
Total	\$29,504.80

LIABILITIES

Capital stock paid in	\$6,000.00
Deposits subject to chk.	8,508.90
Demand Certificates of Deposit	14,711.83
Total	\$29,504.80

State of North Carolina, County of Stokes, ss:

I, T. S. Petree, Cashier of the above named bank, do solemnly swear that the above statement is true to the best of my knowledge and belief.

T. S. PETREE, Cashier. Subscribed and sworn to before me, this 6th day of May, 1915. FRED E. SHORE, Notary Public.

My commission expires Nov. 27, 1916. Correct—Attest:

V. T. GRABS, S. W. PULLIAM, N. E. PEPPER, Directors.

PANAMA-PACIFIC EXPOSITION

San Francisco and San Diego, California.

THE SOUTHERN RAILWAY COMPANY

Premier Carrier of the South.

Very Low Round Trip Rates

Dates of sale March 1st to November 30th, 1915. Final return limit three months from date of sale, except that these tickets will not be good to return later than December 31st, 1915.

Low round trip fares from principal points as follows:

Charlotte	\$84.15	North Wilkesboro	\$87.85
Salisbury	84.15	Statesville	84.15
High Point	84.15	Hickory	83.15
Greensboro	84.15	Morganton	82.20
Mount Airy	86.25	Winston-Salem	84.15
Gastonia	84.15	Shelby	82.60

Fares from other points on same basis.

Fares to Seattle or via Portland and Seattle at higher rate. These tickets will permit of diverse routing and will allow stop-overs on both going and return trip within limit of ticket.

Southern Railway offers choice of several routes of historic interest from which to select; going one way and returning another. Through connections and good service via Memphis, St. Louis, Chicago or New Orleans. Through cars daily via New Orleans and Sunset Route. Special car parties now being arranged, affording opportunity to make trip without change and with select company on outgoing trip; returning at leisure via any route you may choose, stopping off at your own pleasure, thereby avoiding all the discomforts of going and returning with large tour parties, being compelled to follow the crowd. In going individually or with special Pullman car parties you spend your own money, stop where you please and go and come to suit your own convenience and save money paid tourist agents for escorting you around.

For further information apply to Southern Railway Agents, or

R. H. DeBUTTS,

Division Passenger Agent,

Charlotte, N. C.

UGH! CALOMEL MAKES YOU SICK. DON'T STAY BILIOUS, CONSTIPATED

"Dodson's Liver Tone" Will Clean Your Sluggish Liver Better Than Calomel and Can Not Salivate.

Calomel makes you sick; you lose a day's work. Calomel is quicksilver and it salivates; calomel injures your liver. If you are bilious; feel lazy, sluggish and all knocked out, if your bowels are constipated and your head aches or stomach is sour, just take a spoonful of harmless Dodson's Liver Tone instead of using sickening, salivating calomel. Dodson's Liver Tone is real liver medicine. You'll know it next morning because you will wake up feeling fine, your liver will be working, your head-ache and dizziness gone, your stomach will be sweet and bowels regular. You will feel like working. You'll be cheerful; full of energy, vigor and ambition.

Your druggist or dealer sells you a 50 cent bottle of Dodson's Liver Tone under my personal guarantee that it will clean your sluggish liver better than nasty calomel; it won't make you sick and you can eat anything you want without being salivated. Your druggist guarantees that each spoonful will start your liver, clean your bowels and straighten you up by morning or you get your money back. Children gladly take Dodson's Liver Tone because it is pleasant tasting and doesn't gripe or cramp or make them sick. I am selling millions of bottles of Dodson's Liver Tone to people who have found that this pleasant, vegetable, liver medicine takes the place of dangerous calomel. Buy one bottle on my sound, reliable guarantee. Ask your druggist about me.