

## Vinegar Is Made From Fruit Juice

**Sugar In The Juice Is Fermented to Alcohol - Acetic Acid Bacteria Added**

From the dawn of civilization vinegar has played a notable part in the human diet. It may be prepared from practically any fruit juice. The primary step is fermentation of the sugars in the juice to alcohol which, in turn, is converted into vinegar by acetic acid bacteria. In some countries, certain kinds of vinegar through extensive use have become what might be called national vinegars, because they are made largely from national beverages. For instance, in England the term "vinegar" means vinegar made from beer, in France and Italy, that made from wine, and in North America, that made from cider.

**How Cider Vinegar Is Made**  
Cider vinegar is formed by the action of acetic acid bacteria on properly fermented apple juice. Essentially, vinegar is a dilute solution of acetic acid, but since it is the product of definite biological fermentation of sound fruit juice, it contains many flavours and other substances in addition to those produced during fermentation and storage.

## Ontario, Alberta Produce All Sugar Grown In Canada

**Sugar Beet Acreage May Be Increased to Accommodate Demand at Home During Wartime**

It is learned at Ottawa that members of the tariff board are convinced Canada can now lay plans to produce a larger share of domestic sugar requirements. Last year, of a consumption of more than 1,000,000,000 pounds, only 150,000,000 pounds were refined from Canadian sugar beets.

**We Use 7 Times As Much**  
In 1938, half of the 150,000,000 pounds of Canadian grown and produced sugar came from the beet fields of Alberta and half from Ontario. In the irrigated area around Raymond, Alta., there is produced 16 tons of sugar beets to an acre, equivalent to 3,500 pounds of sugar. Sugar content of the Alberta beets averages 25 per cent higher than that of Ontario beets. It is said. It is estimated another 200,000 acres could be brought into sugar beet production, beet crops being grown two years out of four.

## Resigns Chairmanship



L. W. Brockington, chairman of the board of governors of the Canadian Broadcasting Corporation for the past three years, has resigned from that office starting Nov. 1. He is devoting all his time to his law practice.

## Deaf People Are Lonely

**Make It Easier For Them By Conversing In A Friendly Manner Natural Enunciation Necessary**

The deaf are lonely, but how much more lonely than anyone else they are! The loneliest moment on earth is in a large city where you know nobody. You may be so lonely you can't read, but you can at least go to the movies. The deaf man can't even do that, with any degree of pleasure.

**6 Per Cent. of Population Affected**  
It is calculated that six per cent. of the entire population is deaf. That six per cent. has to make a great many difficult adjustments to meet the hearing world on its own ground.

Here is a thought for all of us — not just because it is a duty, but because of our own comfort and interest. In conversing with a deaf friend the desired thing is natural enunciation. Loudness is not as necessary as distinctness especially for his readers. Do not talk to your back to the light. Show him things rather than read them to him.

## THAT REMINDS ME—OGDEN'S SCORES with ROLL-YOUR-OWNERS

"Ogden's" is the signal for fuller enjoyment in rolling-your-own. Go into a huddle with this sweet, fragrant cigarette tobacco and you're headed for a touch down in smoking pleasure especially if you use "Chantrelle" or "Vogue" papers.



## What Science is Doing

### SURGERY FIGHTS POLIO

Surgery which routes the muscles of children crippled by infantile paralysis so that a lost muscle is partly replaced by a muscle elsewhere is reported.

Dr. J. T. Nicholson, of Philadelphia, describes how this has enabled children threatened with twisted limbs to grow straight legs and normally-shaped feet.

### DRUG REDUCES CLOTTING

Partial success in preventing coronary thrombosis, a fatal clotting of the heart's main artery and a common cause of death, through use of a compound called heparin is reported by Dr. Charles H. Best, of Toronto, co-discoverer of insulin.

### QUICK SPRAIN CURE

A quick hyperdermic cure for sprained ankles and knees has been discovered. Novocaine is injected close to the sprain. It relieves the pain of moving the joint and at the same time helps injured tissues to recover quickly.

### FAR DRUMS SHIFTED

A surgical operation which moves the ear drum to a new, artificial opening into the inner ear is being found successful in ending some types of deafness. An opening is made in the ear just above the funnel where people stuff cotton when they have earaches. The new entry is about at the first coil of the "shell" around the funnel.

## Farm Forum

**Q.** I have never kept chickens before, and I have a notion that the manure, if kept dry, is a valuable by-product, at least worth giving a little attention to. Am I right? Speaking roughly, after reading your letter I would say chicken manure equalled a 13-1/2 fertilizer. If dry, could it be used as a side-dressing on growing crops? What is the value of chicken manure compared to the manure from one horse and one cow, mixed and looked after well? "J.W.P.—Middlesex Co."

**A.** The analysis of chicken manure would run about 1 3/4-3/5 formula. Chicken manure is estimated to have a value of \$4.16 per ton while a mixture of horse or dairy cow manure would have a value of \$2.28 per ton. From these statements you will see that you are right in assuming that chicken manure is a valuable by-product. It should be stored so that rain and snow will not wash through it.

Canadian domestic exports for the eight-month period ended August 31, 1939, totalled \$63,000,000, which is a gain of \$121,500,000 over the same period the previous year.

Watchmakers, leather stores and shirtmakers in Paris advertised a 20 per cent. reduction for mobilized men and women departing France.

## Autumn Dangers Menace Motorist

**Take Particular Care in Driving Over the Highways At This Season**

Warnings are being given by the Royal Automobile Club of Canada to all motorists of the dangers that are inherent in autumn.

Drivers are advised by George A. McNamee, manager of the R. A. C., to take particular care in driving over the highways at this time because there is nothing, with the exception of wet clay, that is more treacherous than a surface of leaves on the smooth surface of the road. With the high-powered cars in use today the danger of skidding through emergency braking is much increased as the loose leaves prevent the tires from getting the proper traction.

### Rainy Weather Is Bad

Warnings are also given that soft shoulders are very dangerous at this time, because of their lack of stability in rainy weather. A fast-traveling car getting off the edge of the paved surface is almost bound to get out of control in the soft shoulders and land upside down in the ditch.

The club also says that early darkness, slippery pavements, deceptive shadows, rain, mist and possibly early snowfalls, all call for extra vigilance in driving, not only to ensure the safety of the passengers, but also of pedestrians and particularly children who are using the streets and highways to go to and from their schools.

## How Can I?

BY ANNE ASHLEY

**Q.**—How can I tighten the blades of a pair of scissors, which have become loose?

**A.** Try pressing a hot poker or solder iron on each side of the rivet which holds the blades. The rivet will expand and fit the hole, which tightens the blades.

**Q.** How can I prepare a good fruit cocktail?

**A.** Use one cup or orange juice, four tablespoons of lemon juice, and three tablespoons of honey-flavoured syrup. Mix these ingredients and serve with ice in cocktail glasses.

**Q.** How can I prevent moisture from forming on my eyeglasses when going from a cold into a warm atmosphere?

**A.** Moisten the tips of the fingers and rub them over a cake of soap; then rub them over the lens, and polish as usual.

**Q.** How can I remove ink stains from white goods?

**A.** A solution to keep on hand for this purpose is 1 ounce of each of sal ammoniac and salts of tartar. Put into a quart bottle half-full of water and shake well for several minutes. Then fill bottle with water, shake again and cork. Soak the goods in this solution and then wash.

**Q.** How can I prevent the threads in rag rugs from loosening when shaking them?

**A.** Hold the rugs by the sides instead of the ends when shaking them. Also the pull is on the threads, joining the rugs when holding them by the ends and the rug will wear out quickly, as it loosens the threads.

## Canada's War Role Greater

**Visiting Economist Predicts Technicians Will Be Trained Here**

If war comes to its fullest and grimmest extent to the countries of Europe, with bombing planes dropping death on cities, on factories and on universities, Canada may play an even more important role in the fight against Hitlerism than she is already scheduled to play, according to Dr. Michael Hellperin, Polish-born economic authority, who is in Canada at the present time.

### To Train "Brains of War"

Canada is already likely to become the centre of arms and munitions production. It has already been selected as the training centre for the war fliers of the British Empire. But it may, according to Dr. Hellperin, also become the training place for the "brains" of the war.

"I mean by this," he explained in an interview at Montreal last week, "that wartime conditions may make it impossible to turn out technical men — engineers and physicists, particularly.

### Middle-Age Spread In Pigs Depleted

320,000 pigs of Victoria, Australia, must slim if they are to be in the export fashion.

A Department of Agriculture bulletin informs growers that the export trade demands long lean pigs and that they must conform to the "exacting demands of the United Kingdom pork and bacon trade." With the bulletin goes two pictures of carcasses, one long and lean showing a meaty cut and the other short and excessively fat. The idea is to catch pigs just before that expansive, idyllic period when they develop the middle-aged spread.

## Have You Heard?

"Heard the news? Bill is in hospital."

"What happened?"

"He yawned; put his shoulder out of place and broke his leg."

"Impossible."

"He was hanging on the trappee by his teeth at the time."

### Advertisement, Style 1939:

"Cellars, spacious, dry, solid; excellent large house above; London 20 miles."—Advt. in "The Times."—Spotted by Punch.

### New Proverbs

"A man becomes judged by the company he floats."

"Wise men pause before crossing a cheque, a main road, or a woman."

"Raise your hat to the past, take off your coat to the future." Secret of success: Making hay with the grass that grows under other people's feet.

"Jimmy, I wish you'd learn better table manners. You're a regular little pig at the table."

Deep silence on Jimmy's part. So father, in order to impress him more, added, "I may, Jim, do you know what a pig is?"

"Yes, Dad," replied Jimmy, meekly, "it's a hog's little boy."

A Negro who had been exploring chicken coops heard that the sheriff was after him. Hastily he sought the railway station and asked for a ticket to the end of the line on the fastest train.

"Our fastest train left just ten minutes ago," he was told.

"Well," gasped the Negro, "jes give me a ticket an' point out de track!"

"I can see five flies, two masculine and three feminine."

"How on earth can you tell that?"

"Easy. Two are on the table and three on the mirror."

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## Teacher Who Talks Without A Larynx

E. M. Otis has started his 31st year as superintendent of the Willoughby, Ohio, schools. Unusual in itself is his lengthy service, but Otis has overcome a physical handicap that threatened the end of his teaching career. Last year Otis had his larynx removed. The operation deprived him of use of his vocal chords and made breathing possible only through a small hole in his throat. Undiscouraged, Otis learned to talk through an accomplishment rare in medical circles.

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Driving through Boston, Mass., one James J. Behr listened attentively to a broadcast of Information Please, obediently shut his eyes when he heard Master of Ceremonies Clifton Fadiman ask the guest experts to shut their eyes and tell the color of their ties. The experts knew and the sponsors paid nothing. Mr. Behr, who also knew, hit the car ahead of him, paid \$17.62.

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## Maginot Line "Impregnated"

The Maginot Line as it was visible as the "ruler" to a Reuters New correspondent who, with of British newspapers, France's defense fortifications.

"A foot 1 visited in a small hill scooped out the purpose. At the observation post guard rails, steel cupola, which in a great black of wrote.

"At another point... one of several gun turrets was visible was a column of steel shaped in the soldier's steel helmet, which 125 tons and wide steel collar of weight, the whole being vast block of concrete diameter.

"They Shall Not Pass" The correspondent with the passages through with miniature railway, 200 feet below ground, which power station and hospital.

"In front of the trench mile after mile of barbed wire of anti-aircraft rails of the heaviest type, and buses through the area of the left the Maginot Line, that the garrison's headquarters is fully."

## Grand Mufti Flees



According to a report from London, the former Grand Mufti of Jerusalem, Haj Amin el-Husseini, recently escaped from the A.M.V. It is reported that he has been arrested in Iraq. The government holds the mufti responsible for organizing the terrorist campaign and had him indefinitely from the A.M.V. It is reported that the mufti has anti-British campaign that Empire is engaged in.

## Cod Liver Oil May Run Short

Effect of War in North ready felt in Canada

Shortage in the supply of cod liver oil has been felt in Canada since the start of the war. The fisherman's association at Montreal has predicted a shortage of cod liver oil for 1939.

Unless a new source is found for the cod liver oil, 75 per cent of which is supplied by Norway, the supply may become exhausted.

Mrs. Bethel, who has an increased stock of cod liver oil for the Welfare Association has predicted a shortage of cod liver oil for 1939. She predicted a similar advance.

## Autos Affect Realty Values

The phenomenal growth of use of motor cars is becoming increasingly important in determining real estate values according to Walter Barr, of the Detroit Motor Car Association.

"The stationary character of real estate tends to show up in the fact that the automobile, in recent years has stepped into the shoes of the horse, and has generally replaced it in practically all amusement and transportation, and most centres, were located close to transportation, that is, to the horse."

Real Estate Not Stagnant  
"Mass transportation is being used in greater extent than ever, and heavy motor traffic is also important as mass transportation these days. Actually, some shopping centres built in the 19th century are already showing a decline. Other centres are vanishing to motor traffic, taken their trade."