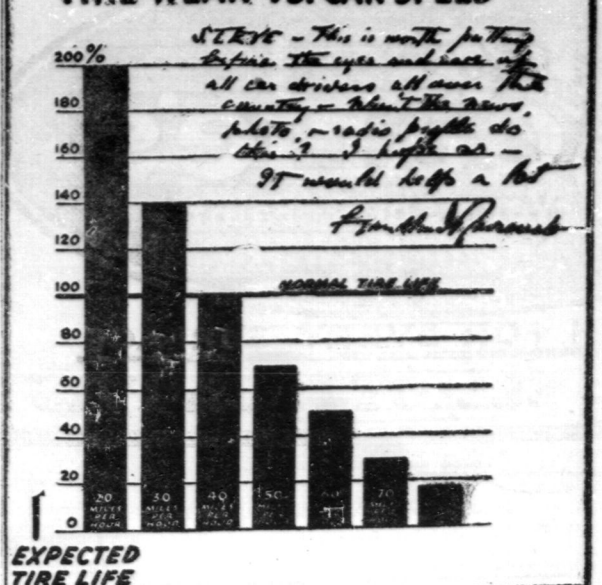


## MEMO TO DRIVERS FROM FDR

## TIRE WEAR VS. CAR SPEED



This tire-life chart to impress President Roosevelt that he asked his secretary to put it "before the eyes and ears of all drivers all over the country." The President's copy of the chart, which was prepared by the Automobile and Rubber Industry Committee of the Society of Automotive Engineers, is shown above. It reveals that a tire's normal life is doubled when driving speed is reduced from 40 to 30 miles an hour.

## HOW CAN I?

Q. How can I polish out small scratches on glass?  
A. They may be partially polished out by rubbing with rouge wet with water upon a piece of soft leather. However, if the scratches are deep, it will be necessary to grind them out with the finest four emery, such as that used by opticians, and the spot polished with rouge and water in a piece of soft leather.

Q. How can I remove calcimine?  
A. Ordinary calcimine may be washed off with water. However, if necessary, add some alkaline substance such as soap powder, ammonia, trisodium phosphate, or borax, to the water.

Q. How can I loosen the dirt when soaking curtains?  
A. A half-cup of salt added to the water in which curtains are being soaked loosens the dirt more rapidly and aids materially in the laundering.

Q. How can I repair a leak in the rubber hot water bottle?  
A. By applying several pieces of liquid court plaster, letting each piece dry before applying the next, and making each piece a little larger than the preceding one.

Q. What is the best method of cleaning eye glasses?  
A. By first moistening the tips of the fingers, rubbing them over a cake of soap, and then rubbing them over the sides of the lens. Polish as usual. Cold cream or vaseline are also very good cleansers. Rub well afterwards with tissue paper.

## "Bring Your Scrap And Cook A Jap"

The scrap heap, now beginning to tower on many a village green, invites the antiquarian to linger for a pension moment, remarks The New York Times. "Bring your scrap and cook a Jap," says a sign riding above a huge old iron cauldron that reminds of the departed days of home-made soap. The horse-and-buggy age is well represented; one sees brittle bits, wagon wheel jacks and tires, horseshoes shiny from being tossed at iron stoves, carriage lamps still holding their candle stubs, and a metal curycumb. There are doorknob mud-scrappers, a fireplace crane, the frame of a bonushaker bicycle, a rusty arvil and a Civil War cistern pump. Numerous are heavy iron pots and kettles with legs to hold them out of the flame, and flatirons that needed strong and broad hands to push them. Treasured, or at least saved, for generations, these possessions come now to serve the country's need.

First business man — My boy whistles while he works.  
Second ditto — You're lucky! Mine only whistles.  
Little Girl — Mother, you know that vase you told me had been handed down from generation to generation?  
Mother — Yes, dear, why?  
Little Girl — Well, this generation has just dropped it.

She — What do you mean by telling your boy friend that I was deaf and dumb?  
Second She — I didn't say deaf.

## Rhodes Colossus

When British warships recently bombarded the island of Rhodes the target the gunners could see clearest was a grain elevator. One for each time, around 300 B.C. it would have been the Rhodes Colossus. Sculptor Charis erected the statue as a military memorial. Seventy cubits high, or more than a hundred feet, it was in the air. It stood for half a century, then a earthquake threw it down. Its fragments lay around for 800 years and were finally sold.

FREE CATALOGUE OF THE NEW ROYAL CHESTERFIELD CIGARETTES. SAVE 50% WITH MANY COLORED PAGES.

## What Science Is Doing

## BLOOD DRYING

British scientists are spending a legacy of nearly \$10,000 on a blood freezing and drying plant which will carry development of life-saving plasma still another great stride forward. Every dollar spent may represent a life or more saved.

Building of the machine, largest yet erected for the freezing and drying of plasma, will put Britain ahead in a field of science which is being diligently studied, for peace as well as war, by all fighting nations. It was made possible through a gift to the Medical Research Council by trustees of the late millionaire chemist, Sir Henry Wellcome.

## Retains Quality Indefinitely

The machine resembles a giant refrigerator coupled to a group of tall cylinders. Through a new process discovered by British scientists, it will freeze and dry each drop of the blood gifts of 10,000 donors. Next week—or even eight years from now—the frozen dried plasma will give life to sick and wounded in any climate, because it retains its quality indefinitely.

Dried plasma is saving lives in Egypt today, and British warships, fighting their way to Russia, or Malta, carry the flake-like substance to save lives in the middle of intense actions or raging gales.

British blood also flows in the veins of many Chinese soldiers, wounded in the never-ceasing fight against Japan. To reach the Chinese the blood gifts of 10,000 donors are sent thousands of miles by air and sea and pass through all kinds of temperatures. Yet the plasma remains perfect.

## Spin-Freezing

The new plasma plant will produce 3,000 units, frozen dried and ready for use, weekly. The freezing and drying process is known as spin-freezing. The plasma is spun in a shaft which rotates at high speed. The contents, whirling in bottles, freeze in a matter of minutes. The low temperature a greater expanse of liquid to freeze. Suddenly the plasma freezes and the liquid is drawn out under a high vacuum process, leaving only the golden, dry plasma flakes. Then the bottle is sealed, ready for use.

A freshman from the Amazon Put nights of his Grand-mother's tales to rest. The reason that He was too fat To get his own pajamas on.

A man entered a jeweler's shop to buy a clock. The jeweler showed him the different styles. One in particular, he told him, was an eight-day clock.

"What do you mean?" asked the customer. The jeweler explained it would run eight days without winding.

"For the love of Mike!" exclaimed the man. "How long would it run if you wind it?"

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## MODERN ETIQUETTE

By Roberta Lee

1. When a hostess and three guests have sat down for a game of bridge, and a fifth friend drops in, what should the hostess do?  
2. When introducing two men, is it proper to say, "Mr. Baker, this is my friend, Mr. Harris?"  
3. In what position should a person hold his head while eating at the table?

4. When one has been invited to a party, or other affair, and after accepting he contracts a severe cold, what should he do?  
5. Is it permissible for a guest to open a conversation with another guest when there has been no introduction?

6. What does it indicate when a man carries on a conversation with a cigarette dangling from his lips?

Answers  
1. The hostess should either invite the guest to take her place, or suggest some other game such as hearts or rummy, in which five persons can play. 2. No; this would imply that Mr. Baker is not a friend. 3. The head should be held in an erect position, without appearing stiff. The hostess should lean forward slightly, but the head should never be bent at a right angle. 4. Phone the hostess and express how sorry you are that you cannot attend. You are being considerate not only of your own welfare, but also of the other people if you remain at home. 5. Yes, this is a very nice thing to do. 6. Laziness, as well as ill-breeding. He probably considers it useless exertion to lift his hand and remove the cigarette.

Spitfires Proven In Battle Action  
American Planes Not As Good For Job As Spitfires

"American fighter pilots are flying Spitfires because American planes, which were at first expected to fly, just were not good enough for the job," said William H. Stinson, correspondent of the Chicago Daily News, in a recent dispatch from England.

That may start an argument, but we do not know why it should. American blueprints, American construction, American performance in airplanes may be the best in the world, but the Spitfire in battle action is another matter. The Spitfire has proved itself in the laboratory of war.

More than 38,000 miles, die, features, and special tools are required for the construction of a Canadian-made Spitfire.

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## IT'S A COME-DOWN FOR THE AXIS



German and Italian soldiers, armed, guarding British prisoners, taken down over heavily mined Mediterranean island.

## The Individual Citizen's Army

A Weekly Column About This and That in Our Canadian Army

Two weeks ago I devoted this space to the subject of drill. Here was the same subject again because we have been given an opportunity to see the effect of the new drill on the Canadian soldier. For the past two years instructions have been referred to an incident of a soldier as an illustration of the effect of drill as a discipline drill. It was the evacuation of the beach by the Guards. Newspaper dispatches said: "The Guards brought their rifles with them." But it was quite different. No one would be criticized if they had left their rifles behind. The new drill is a beach—nearly every soldier has his equipment behind and new were no reprimands.

But the Guards brought their rifles with them. It has long been fashionable for Line Regiments to enter gently at the Brigade of Guards for their meticulous adherence to parade ground soldiering. The sneers were good-natured, of course, as all soldiers are in a tight place—the Canadians at Dieppe!

There is a quotation of one of the early cables from the Channel. It was written by a Canadian "fear who went with the Canadians."

"One group of the Westerners was in such good form that even after a five-hour battle they smartly moved and marched about the beach that picked them up."

The "Tankers" have earned a place in military history. They were written by Ross Munro of the other Canadian Press. "Crews of the Calgary, Tank Regiment, which led the way in the Dieppe yesterday, took the remnants of their battle-smashed formation through the night."

Those two examples of the intelligent discipline that grows out of drill will be quoted by many a citizen-soldier, by many an officer, by many a recruit in the next few years and will, I hope, be born in mind by those of us who are apt to criticize without thinking.

Some of you are bound to be asking, just about now, "what's he trying to get at? Surely he does not suggest that the raid on Dieppe was put on just to demonstrate the value of parade ground drill?"

No, I don't suggest that for one moment. In fact any citizen who tries to say why the Dieppe raid was made would be a fool. There are many reasons why a military high command decides to stage a raid, especially with the war conditions that confront us at present.

And the high command cannot even over the public into its confidence. We have to be content with the kind of drill we need to fit us to play a proper part when the going gets tough.

British Warships  
British shipbuilders turned out more than 500 fighting ships in 30 months—an average of about one fully equipped warship every two days—the British radio reported last week.

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