

# The Automobile

**PROPER LIGHTS ON CAR ARE SAFETY AID.**  
A lot has been heard about the headlight problem in the automotive field and someone has suggested that the only way to solve this problem is to pass a law prohibiting night driving. Of course nobody is likely to seriously propose such a regulation, consequently we are liable to continue with this perplexing situation.

From thirty minutes after sunset until thirty minutes before sunrise represent the hours when driving is most difficult and dangerous. While driving at night headlights should enable the driver to see clearly objects at least two hundred feet ahead. The car should have two lusty headlights when in motion—white and of equal strength. Also a tall light, red and visible for five hundred feet.

The belief that the motor headlight glare problem is one of considerable mystery and extremely difficult to solve is held by many leaders in the automotive industry. Some of the best illuminating engineers in the country have been devoting their skill and energy to the general proposition of creating headlights which will not glare and yet at the same time will give sufficient brightness to light the road ahead.

**LIGHT EFFECTS ANALYSED.**  
In the daytimes when the sun is shining automobile headlights may be turned on and yet no inconvenience will be caused to motorists who happen to meet such a car. Under such circumstances it is easily possible to read the license plate on the front of the car. This is due to the fact that the light reflected from the license plate to the eyes is about sixty times as powerful as the headlight. Of course, as evening approaches the headlights appear to become stronger and this process goes on until daylight has entirely disappeared and nighttime has brought on its usual darkness, when the headlights are at their brightest. During this process the eye has been automatically adapting

**Making Canada's Inventory.**  
Much is heard of Canada's natural resources—her minerals, water powers, forests, fisheries and lands, and we have learned to value them highly, says the Natural Resources Intelligence Service. They mean everything to this young country.

Very few, however, appreciate the difficulties, the hardships, and, many times, the privations under which the pioneers in discoveries, labor in making known our wealth in natural resources.

The Interior Department has just sent an expedition to the northern islands of the Arctic. The vessel carries a number of scientists, who will report on the resources of that country. Another party is being sent along the northern limits of the mainland, from the Mackenzie to Hudson Bay, exploring the territory wherein it is already generally known valuable resources in minerals exist. These men will spend the winter in the North.

Even in more southerly latitudes Canada has areas in which the work is not easy. In the mountains of British Columbia geologists are making surveys that are doing so sometimes at great risk and often under difficult conditions. A recent report from one of the parties states that the work had been delayed until late in the season by bad weather, including belated snowstorms. In order to overcome the lost time the party was now working from 4.30 in the morning till 8 o'clock in the evening, and Sundays have been entirely removed from the calendar.

In 1923 a geological party in northwestern Quebec lost two members of its party by drowning. There are no bridges in the wilds, and turbulent streams frequently have to be crossed or navigated often at great risk.

This spring, at a watering station on a river on which much potential water-power exists, while the engineers were taking measurements of the volume and rapidity of flow, they were thrown into the water owing to floating logs being carried under their boat.

The records of many cases are buried in the official government reports, and little is ever heard by the public of the work being done by the Civil Servants of Canada on the frontiers of civilization and beyond. The inventory of our natural resources goes on, however, and it is only when the death of a field man on duty is reported that any public attention is given to the work these pioneers are doing.

## Natural Resources Bulletin.

The Natural Resources Intelligence Service of the Dept. of the Interior at Ottawa says:

The fruit season is now upon us, and berries, cherries, peaches, plums, early apples, etc., are coming on to the market in tremendous quantities, and in a variety of containers, boxes, baskets, crates and barrels, with many shapes and sizes of each.

Some conception of the quantities required for a season's fruit handling is given in a report by the Dominion Bureau of Statistics for 1922. In that year there were 14,906,892 berry boxes made, together with 13,830,021 baskets and 1,025,175 crates.

Between seasons practically all this enormous number of containers has disappeared, and a new supply is required. True, they are very frail, being made for temporary use only, and in order to produce the most attractive and saleable fruit new containers are necessary.

The interdependence of industries is given in a report by the Dominion Bureau of Statistics for 1922. In that year there were used 95,550,000 board feet of softwood, 14,162,000 board feet of hardwood, and 7,000,000 feet of veneer.

**Villains.**  
A Frenchman was travelling in Ireland when he overheard the following conversation:  
"Sure, Pat, it's down to Kilmory I've been and now I'm going to Kilmory."  
"Ye don't say so," said Pat. "Why it's myself that's been to Kilmory, and soon I shall go to Kilmory."  
"Villains," muttered the Frenchman.

In Norway a girl must possess a certificate of her ability as a cook before she is allowed to marry.



A party of intrepid Alpine climbers resting on the tank stone, Mount Edith Cavell Glacier, Jasper Park.

## CROSS-WORD PUZZLE

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- HORIZONTAL**
- 1—To plot together
  - 2—A city in Westchester Co., New York
  - 11—A sentence acknowledging a debt (abbr.)
  - 12—Interjection
  - 14—A greasy liquid
  - 15—To twist or bend
  - 17—To sing in a hearty way
  - 19—To put in some public place
  - 21—A southern State of U. S. (abbr.)
  - 22—A dwarf
  - 23—Interjection
  - 24—A burglar
  - 28—A building material
  - 29—Contraction of "ever"
  - 29—Personal pronoun (neuter)
  - 31—A title in Portugal and Brazil
  - 32—A continent (abbr.)
  - 34—Indefinite article
  - 35—Electrical term (abbr.)
  - 37—A theological degree (abbr.)
  - 38—Bare
  - 41—A famous palace in Paris
  - 44—A what-not
  - 45—Assault
  - 46—A little island in inland waters
  - 48—A color
  - 50—An outfit, as of tools
  - 51—Girl's name
  - 56—Not far
  - 57—Murmure, as a stream
  - 60—Girl's name
  - 63—Avarice
  - 64—A mountain in Thessaly, on which Pelion was piled by giants
  - 67—Side sheltered from wind
  - 69—Man's name
  - 70—Part of verb "to be"
  - 71—A mixture or medley
  - 72—Capital of Galicia
- VERTICAL**
- 1—A domestic animal
  - 2—An optical illusion
  - 3—A sharp, explosive noise
  - 4—Girl's name (familiar)
  - 6—Pulled in pieces
  - 7—Negative
  - 8—Untanned calfskin
  - 9—God (Hebrew)
  - 10—A collection
  - 13—To lift up
  - 16—Epoch
  - 17—To make, as an edging
  - 18—To tell an untruth
  - 20—Man's name (familiar)
  - 21—Affirmation
  - 25—Small country S. E. of Russia
  - 26—City of Belgium, destroyed by Germans in 1914
  - 27—To finish
  - 29—Pertaining to that which is interior
  - 30—A dish of green vegetables
  - 32—About (abbr.)
  - 34—Combining form meaning "air"
  - 36—A kind of lettuce
  - 37—The supreme god of the Babylonians
  - 39—American Assn. for the Advancement of Science (abbr.)
  - 40—To steep or soak
  - 42—A river in S. W. Wales
  - 43—A solemn ceremony
  - 44—A sense organ
  - 46—Title of a knight
  - 49—A game of cards
  - 52—Silence by force
  - 54—Man's name (familiar)
  - 56—A stupid person
  - 58—A kind of cheese
  - 59—Loyal, faithful (Scott.)
  - 60—A lyrical book of Old Testament (abbr.)
  - 61—Sick
  - 62—A great body of water
  - 64—Sphere
  - 65—To look
  - 66—A month (abbr.)
  - 68—Prefix, same as "in"
  - 70—Part of verb "to be"

**Huge Painting for Doge's.**  
One of the largest paintings in the world, exclusive of panoramas, is in the grand salon of the Doge's palace at Venice. The painting is eighty-four feet wide by thirty-four feet high.

All's fair in love and war—and they are alike in other ways.

## Functions of the Sunday School Orchestra.

Not so many years ago an orchestra in a Sunday School was an almost unheard-of thing. That is not the case to-day. With the remarkable growth of music in all phases of life during the past few years has come a corresponding growth in orchestral playing.

THIS ARTICLE REMOVED

## The Way You Take It.

Two women were talking together. "It's a mystery to me why I don't break down. I have so much to contend with," said the first woman.

She looked worried and fretful, ten years older than she really was. By her troubles were only the ordinary vexations of life—unsatisfactory servants, a boy who had been allowed to eat too much and was suffering from his indiscretion, another boy whose mischievousness had got him into trouble at school.

"Don't worry," said her companion. "Life is worth living, if you take it that way."

The second woman had real trouble—a husband who could not make a living, grinding poverty, a crippled child—but her face expressed cheerfulness and courage, and she looked ten years younger than she was.

She was not a learned woman. Doubtless she had never heard of Epictetus and his wise words: "Externals are not in my power; will is in my power." It is even probable that Whomp Riley's beautiful way of stating her point of view was unfamiliar to her:

"When God sorts out the weather and sends rain, Why, rain's my choice."

Perhaps she had heard Henley's stirring lines: "I am the Master of my Fate, I am the Captain of my Soul!" But more probably she had not. Nevertheless, from her own experience, she had worked out a wise and practical philosophy of life. She would not let misfortune sour her or worry her. She forgot her own troubles in living courageously and cheerfully. She took life in the right way and made it worth living.

## Old Sarum.

Two miles north of the town of Salisbury, England, is an enormous heap of ruins which once composed the ancient town of Sarum, now known as "Old Sarum, a rotten borough." Sarum was founded by the Romans, became a considerable city and had a great bishop's castle. War came along and reduced the city to ruins, and everybody departed. In 1825 Lord Caledon paid sixty thousand pounds for the whole thing, and from that time the "rotten borough" regularly returned two members to Parliament, the elections taking place on the field where the city hall once stood.

**She Moved Along.**  
She had been standing in front of the receiving teller for over a quarter of an hour and he seemed quite unaware of her presence—at any rate, he took no notice of her at all.

At last she became too irritated to keep quiet another moment, and, rapping on the window to attract the teller's attention, she caustically remarked: "Why don't you pay attention to me?"

"I'm very sorry, madam, we don't pay anything here," was the polite reply. "Next window on the left, please."

A man of science from South America says he has perfected a microphone so sensitive that by means of it you can hear a worm eating an apple. As if there were not enough noises in the world without going in search of them!

And an over-noisy instrument of an orchestra, too loud as a whole, does not contribute to the worship values of a program. Wind instruments have this hurtful effect. A saxophone played as in a jazz band has no place in such an orchestra; if, however, it is played quietly, reverently, its mellow tones give a rich volume to the harmony. The effect of quiet harmony should be sought as over against mere volume of sound.

"To enrich the worship program, the orchestra will need to fit its own work into the spirit of the hour. If there is an opening overture it should contribute to the quieting process desirable in opening a school.

## How Bunny Foiled the Wildcat.

While a friend of mine was walking recently through a stretch of wood, bound on a fishing trip, writes a contributor to the Youth's Companion, he was astonished to see a rabbit hop into the road and follow along a short distance behind him. At first he thought that it might be sick or wounded, but when he tried to approach it the little creature made off into a thicket.

As he continued on his course he could still hear it picking its way through the undergrowth, and after he reached the brook and began to fish he frequently caught sight of what was plainly the same rabbit hopping from bush to bush, always at no great distance.

Suddenly he heard the fierce growl of a wildcat, and the rabbit scurried up to within a few feet of him and cowered down in abject terror. The fisherman fired a few shots from his revolver, which frightened the cat away. Then the rabbit disappeared to return no more.

## MUTT AND JEFF—By Bud Fisher.



## Jeff Figured His Time Was Worth a Dollar and Ten Cents at Least

MUTT: COME DOWN TO THE DUTCHMAN'S AT ONCE AND BRING A DOLLAR WITH YOU!

MUTT: DID YOU BRING THE DOLLAR?

WHAT DO YOU WANT WITH IT?

A NICKEL OF MINE ROLLED DOWN THIS CRACK—

(AND I WANT TO DROP A BUCK BY IT SO IT WILL MAKE IT WORTH WHILE TO PRY UP A BOARD!)

PINHEAD!