

# BREAKS THE RECORD

### Production of Bauxite and Aluminum Greatly Increased.

Growth of Aluminum Industry Shown by Fact That Production in 1914 Was 155 Pounds, and in 1915 8,500,000 Pounds.

Washington.—The production of bauxite and the consumption of aluminum in the United States in 1914 were the largest ever recorded. The report prepared by W. C. Fahlen of the United States geological survey shows an output of 219,318 long tons of bauxite, valued at \$1,009,194. In 1914, against 210,241 long tons, valued at \$997,658, in 1913. The states which produced bauxite in 1914 were Alabama, Arkansas, Georgia and Tennessee. Arkansas produced more than 50 per cent of the output and the output was larger in 1914 than in 1913. The production of Georgia, which held second place in both years, and of Alabama and Tennessee was considerably less in 1914 than it was in 1913. The imports of bauxite amounted to 24,844 long tons, valued at \$96,509, or 3,283 tons more than in 1913.

Bauxite is used in the production of metallic aluminum and in the manufacture of aluminum salts, of bauxite bricks, and of aluminum. The use of bauxite in the production of the metal aluminum is by far the most important one, and the largest part of the bauxite produced in Arkansas, as well as most of that imported, is used in the aluminum industry.

Aluminum, which is used extensively as an abrasive, is made at Niagara Falls, N. Y., by fusing refined bauxite in an electric furnace. Aluminum is especially efficient for the grinding of steel forgings and castings. Only the best grades of bauxite are used in the manufacture of such chemicals as alum, aluminum sulphate and aluminum salts, as freedom from oxide of iron is desirable for such purposes.

Another use to which bauxite is adapted is in the manufacture of calcium aluminates, which gives a quick set to plaster compositions.

The quantity of aluminum consumed in the United States in 1914 was 79,139,000 pounds, against 72,179,000 pounds in 1913 and 63,607,000 pounds in 1912. The growth of the industry is shown by the fact that the production was 150 pounds in 1884, 150,000 pounds in 1888, and 8,500,000 pounds in 1914.

The value of the exports of aluminum and of manufactures of aluminum amounted to \$1,445,510 in 1914, as compared with \$956,094 in 1913.

Aluminum is the most abundant of metals and ranks third among the elements which compose the crust of the earth, being exceeded only by oxygen and silicon. It is an important constituent of all common rocks except certain sedimentary rocks, as sandstone and limestone. It is never found native, or in elementary form, but occurs as an oxide, hydroxide, fluoride, phosphate, sulphate, silicate, or other compound. The only source of the metal so far commercially utilized is bauxite, an ore that contains 50 to 60 per cent of alumina (the common oxide), which corresponds to a metallic content of 26.5 to 31.5 per cent of aluminum.

The consumption of aluminum is constantly expanding, and aside from its use in the manufacture of cooking utensils, it is being employed in the construction of automobile castings and of welded tanks used by brewers, preservative manufacturers, and fat renderers and for wire for power transmission lines. Other uses which are important in their adaptability and efficiency but which absorb only a small portion of the domestic product are the manufacture of powdered metal used as a paint pigment and in making aluminum foil. Aluminum foil is gradually displacing tin foil, which heretofore has been used for wrapping chocolate, candies, tobacco, tea and other products.

## COWARD BECOMES WAR HERO

### Man Sentenced by Court-Martial Shows Bravery at the Ypres Battle.

London.—The story of a convicted coward who turned hero during the fighting around Ypres is told by Prof. J. H. Morgan, who spent five months at British headquarters and whose investigations were summed up in the Bryce report on German atrocities. He has just returned to London. He says: "There was a sergeant who had lost his nerve and had been sentenced by court-martial to five years' penal servitude for cowardice. Before the sentence could be carried out the Prussian guard made their famous attempt to break through our line, and the sergeant, in the fighting which ensued, fought with such bravery that, but for being nominally under arrest at the time, he would have been awarded the Victoria cross."

## Shocked His Dog.

Flint, Mich.—Because a bulldog failed to recognize his master in nature's bathing suit, William O. Bernard, traffic manager for the Western-Mott company, is nursing several injuries. Mr. Bernard was passing from the bathroom in his home to a bedroom and stopped over the dog. As he was dressed only in a pair of slippers, the dog evidently did not know him. Toward him he growled and snarled and then snapped his left side and little finger.

## ONE OF WARSAW'S PRINCIPAL STREETS



Scene in the center of Warsaw, the capital of Russian Poland, which has been the object of the great Tntrot drive in the eastern theater of the war and is now in the hands of the Germans.

## MANY ARE DEAF TO MELODY

### Numerous Instances of Persons Who Were Denied One of Life's Chief Pleasures.

It has been said of the late Dean Stanley that "he had not a note of music in his head," and could scarcely distinguish one tune from another, a fact which caused his biographer, Howard E. Prothero, to express surprise that "one so destitute of musical feeling" as Stanley should have been the first person to introduce Park's Passion music into the religious services of the church.

It is not easy, perhaps, for the average person to understand tone deafness. But just as some people are color blind, so there are others who are melody deaf. Empress Catherine of Russia used to say that she would have given the world to be able to appreciate and love music, declaring that for her "music was noise, and nothing but noise." President Grant is said to have been able to distinguish only two tunes: "Yankee Doodle" and "Hail to the Chief," which were recognizable, probably, because he heard them so often.

Doctors seem to have some difficulty in explaining the cause from which tone deafness arises, although it is generally agreed that nerves have much to do with it. Musical application depends to a great extent upon the exercise of mental and physical faculties, and the delight in music calls for an alert sympathy between the nerves and the cerebral faculties, without which connection there is a definite musical task, although the nerves perform their ordinary function of communicating sounds to the mind.

## TERROR TO THE EVILDOER

### "Burmese Sherlock Holmes" Has Made for Himself a Name That Will Be Remembered.

Possessed of the woodcraft of the American Indian, and an unerring sense of direction which amounts to almost a sixth sense, Rhinobo Wren, who has been called the "Burmese Sherlock Holmes," is perhaps the most remarkable detective in the world. He has followed a trail for long, relentless days through jungles and over mountains, and even swollen rivers have failed to baffle him. Once he has ridden forth on his quest he never halts till he has found his man, and the efficacy of his methods may be judged by the fact that he has made more than 3,000 captures.

So successful has Rhinobo Wren been in capturing criminals, that all sorts of superstitious stories have been told of him. He has simply looked a suspect in the eye long and intently, and the culprit has crumpled up and confessed, so that those who have been fixed with his keen searching glance vow that he can read thoughts like a book, and that he can see through solid matter.

This Burmese Sherlock Holmes seems to bear a charged life. He has been persistently menaced in the jungle, and various attempts have been made to poison him, but they have always failed. He does not admit that he bears a charmed life. "There must be a beginning and an end of all things," he says. "And a man's honest duty will carry him a long way."

## When the World Was New.

The world is biggest when we are young enough to conceive of the pasture as an empire and the city block as a republic. Time is longest when we are young enough to see a day as an epoch, a week as an era, a summer vacation by seaside or lake shore as eternity itself. As we grow older the world grows smaller, and so does time. Space and time are nothing for boy or man save as he holds measures for them in hand or in memory. The boy understands ten feet because that is three long strides, and ten years because he has just lived them. Now we have lived another ten and yet another, but the first ten were the longest and are the truest measure, for the more years we are granted the more scornful of the gift we grow, though the more balasted, too, in our demand for more.—Collier's Weekly.

## FOUND HIMSELF UPSIDE DOWN

### British Aviator Lived to Tell of Weird Experience That He Had in a Cloud.

A British naval aviator when flying seaward recently entered a thick white cloud and wholly lost his sense of direction. He only realized that he was upside down on finding that things were falling out of his pockets. Then his belt broke, and he had to hang on by his knees and elbows. At length he emerged from the cloud and saw the sea apparently over his head, but was able to right his machine and continue his flight.

A young English aviator, the bullet holes in whose planes bore testimony to his repeated exposure to fire, had one narrow escape with an amusing ending. Mistaken for a German aviator, he was fired at by the French and forced to descend through the puncturing of his petrol tank. When the mistake was discovered, of course, profuse apologies were forthcoming, and he was presented by the mayor of the district with a bouquet.

Talking of bullet holes, by the way, I may mention that the record surely belongs to a British aviator who, escaping from a hail of shrapnel, counted 29 separate punctures in his jacket.—U. I. Freeston in Scribner's Magazine.

## Enormous Waste in Hyphens.

In our campaign of economy an American writer suggests that we should do away with hyphens. The Germans build up enormous compound words without any hyphen to break them; but the English find one necessary for a simple word of five letters like "today." It may be roughly estimated that each one of the two hundred million people who write English writes "today," "tomorrow" or "tonight" three times a day. Half an ounce of force is required to make a hyphen with a pen or a pencil, so this superfluous symbol entails a total waste of 2,190,000 pounds daily, or enough to draw a passenger train round the world. And—in my mind's eye, Horatio—I see the printers' staff hurrying a million hyphens through the office window for the scavenger to pick up!—London Chronicle.

## Secret of Success.

The secret of success is not a secret. Nor is it something new. Nor is it something hard to secure. To become more successful, become more efficient, do little things better. No work that you will require less supervision. The least supervision is needed by the person who makes the fewest mistakes. Do what you can and should do for the institution for which you are working, and the size of your income will take care of itself. Let your aim ever be to better the work you are doing. But remember always that you cannot better the work you are doing without bettering yourself. The thought that you think the words that you speak, and the deeds you perform are making you either better or worse.—Thomas Dear.

## Practical Writing Table.

A simply made writing table can be improvised from an ordinary kitchen table, and made to harmonize with any room. One made for a green and white room has the legs sawed off to a convenient length. The table was painted white, and over the top was stretched a cover of green denim. This was turned in and tacked on the under side of the top. On this was set a large blotter case holding sheets of green blotting paper, a box for paper and envelopes, and a pen tray. The blotter corners were covered with green and white checks, the box for stationery had a cover of the same smoothly pasted on, and the result was a pretty and practical writing table, costing very little.

## Weed Kills 1,000 Sheep.

More than one thousand of a flock of sheep shipped into the vicinity of Bords, Wash., to be pastured in the forest reserve are dead as a result of eating white raman weed. After eating the weed the animals were crazed, many ran until they died in convulsions, while hundreds of others plunged into the river and were drowned.

## TAKE FISH BY WHOLESALE

### Natives of South Pacific Island Have Their Own Method of Gathering Food From Sea.

The natives of Narotonga, one of the islands in the South Pacific ocean, have a singular method of catching fish in which the whole community takes part. On the shore of the island there are many long, narrow lagoons, each lying between a beach and an outer reef of coral, that usually swarm with fish. The natives choose one of these stretches of shallow water for the fish drive, and close all breaks in the reef by taping nets across them or building up rough barriers with pieces of coral.

When they have done that, six or seven hundred men, women and children wade into one end of the lagoon carrying little plated fiber bags filled with stu net. In most cases the water is about three feet deep, and nowhere more than four feet, so the natives march slowly up the lagoon, trailing behind them the bags of stu net. As this substance is wet it forms a peculiar narcotic, which it diffuses through the water. The process is called "poisoning the lagoon."

Half an hour is allowed for the "poison" to spread, and at the end of that time all the fish are under the influence of the drug, and are swimming about in a confused and aimless manner. The natives, armed with long, pruned spears, form a line that reaches from side to side of the lagoon, and march along shouting, splashing, and driving the intoxicated fish before them. When the fish are all collected at the farther end of the lagoon, the natives begin to cry, "Eh-bu-bu!" and the barbed spears fly in all directions. The natives are very dexterous with the spears, and the fish are so sluggish, owing to the effects of the stu net, that very few of them escape.

Many of the "poisoned" fish seek the shelter of the coral reef and hide in the crevices, and so some of the natives "fish" the reef. They put on glass goggles and stalk beneath the water, where they remain submerged for one or two minutes. They feel about among the coral for the listless fish, which they get with a short, thrusting spear. These methodical fishermen usually make the biggest catches, but the merry men in the open water enjoy the best sport. No immense varieties of fish are obtained, but all have the brilliant and beautiful coloring peculiar to the fish of the tropics.—Youth's Companion.

## Some Men.

In the Revolution we used 231,771 regulars and 184,007 militia and volunteers against England's 150,000. In the War of 1812 we had 54,002 regular and 47,622 militia against British and Canadian forces of only about 35,000. In the Mexican war 33,024 regulars and 25,532 militia were required to conquer about 46,000 Mexicans. In the Civil war the United States employed 87,000 regulars and 2,605,741 militia and volunteers to defeat about a million Confederates.

## FINE!



"Haw, haw, old man! I thought you said that fine fish abounded in this stream."  
"Yes, and there's a shining example. A fish so fine as to be hardly visible to the naked eye."  
Beneath Him.  
Farmer—[?] give you \$5 a month and your board?  
Applicant—Aw, shucks! What do you think I am, a college graduate?

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## BEYOND CONTROL OF MAN

Absolutely Perfect Day is Something That Depends on Too Many Factors.

There is a pretty little sentimental song which begins with the words "When you come to the end of a perfect day." It relates to true friendship and to an unforgettable incident, and it suggests that perfect days are rare in human experience. Perhaps they are. For perfect days depend upon many factors, and some of these are beyond the control of the individual. You cannot produce a perfect day at will any more than you can summon perfect weather to suit your convenience.

The happy conception of a perfect day would be such a one as falls out to be entirely to your liking in every respect. That requires a combination of circumstances which is exceptional. You might set forth in the morning with the determination that, in respect to your own actions and affairs and your power over them, the day should be perfect, but in an hour or two external influences might intervene and the whole thing go glimmering. If there be one element lacking, whether it be an environment, in the attitude of others or in yourself, perfection is not secured and the day takes its place in the common category, inspiring neither song nor rhapsody, and occupying no permanent place in the storehouse of fond recollections. In fact, it is the very rarity of perfect days that makes the subject one of comment, of story, of poetry, of cherished memories.

His Sole Inspiration.  
"What makes that man look so wise?"  
"I don't know unless it's the quantity of sage tea he drinks."

Beneath Him.  
Farmer—[?] give you \$5 a month and your board?  
Applicant—Aw, shucks! What do you think I am, a college graduate?

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