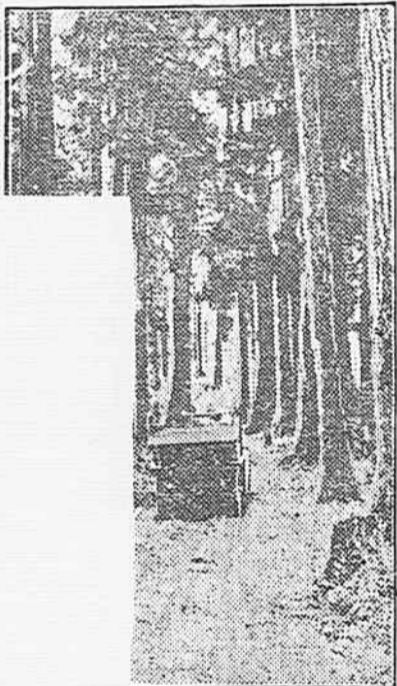


# ROAD BUILDING

**HIGHWAYS ON PACIFIC COAST**  
Interesting Figures Secured by California Experts on Pull Required to Move Wagon.

An energetic and influential organization on the Pacific coast, the California State Automobile association, has carried on some investigations affording definite figures of the value of good roads. It secured the help of Prof. J. B. Davidson of the University of California and Austin B. Fletcher, state highway engineer, in carrying on a large number of tests of the pull required to move a standard farm wagon loaded to make the gross weight 6,000 pounds. This wagon was hauled in some cases by a two-ton truck and in other cases by a team of good draft horses, weighing about 1,600 pounds each.

Tests have shown that a pull of 27 to 30 pounds per ton of gross load was needed to haul the wagon on unsurfaced concrete roads. When the concrete was surfaced with oil and screenings the pull was increased to about 50 pounds. About 65 pounds were needed for hauling on water-bound macadam and on bituminous concrete laid on top of cement concrete. On good gravel roads a pull of 65 to 82 pounds was needed, while on loose gravel the pull was 203 pounds, the highest record in any of the tests. About 80 pounds were required for hauling on bituminous macadam. On earth roads 92 pounds were required for hauling over a good surface covered with 1 1/2 inches of loose dust, 90 pounds over an ord-



## Road Through California Forest.

nary dirt road with dust 3 inches deep in places, and 218 pounds over a muddy earth road.

The significance of these figures lies in the fact that on a good earth road it is necessary to exert three times the pull that is required on a concrete road, and nearly twice the pull required on a macadam road. Furthermore, when the earth road becomes muddy, a condition which does not affect traffic on good pavements, the pull is more than doubled.

## ROADS INDEX OF CHARACTER

Determine Importance of Country, Limiting or Aiding Its Advance—Should Be Built.

The roads are an index of the character of any country, determining its importance and limiting or aiding its advance. A country that isn't worth a good road isn't worth what its land sells for and soon won't be worth living in. No community that has ever improved its roads, has ever regretted it, for road improvement is a good investment for any community. Since the roads are for all the people, they should be built by all the people—with state and federal aid.

## MOTOR TRAFFIC IS GREATER

Significant Feature of Road Development Is Construction of Better Surfaces.

A most significant feature of road development is the construction of better surfaces as a result of automobile traffic, for it is estimated that there are approximately 2,500,000 autos in use on the roads of the country, or one car for every mile of road. The motor traffic is greater than traffic of all kinds 12 years ago.

## Urges Permanent Roads.

That road-building along permanent lines should be prosecuted as a part of our national war program was the determination of the chamber of commerce of the United States, at its meeting held at Atlantic City, N. J.

## Roads Expand in Winter.

Concrete roads expand most in winter and contract most in summer, according to the United States bureau of standards, because of increases or decreases in the moisture they contain.

## Buds and Flowers in Cooking.

The French Canadians are said to use the acid flowers of the redbud, or Judas tree, in salads, while the buds and tender pods are packed in vinegar. Honey locust pods, often locally called "honey-shucks," contain a sweetish, thick, cheese-like pulp, which is often eaten. Those of the mesquite furnish the Mexicans and Indians with a nutritious food. The Creoles of Louisiana, famous for their cookery, are reported to use the young buds of the sassafras as a substitute for okra in thickening soups.

## Nova Scotia's Fish Army.

Nova Scotia is literally "the land of fish"—cod, herring, mackerel and the giant albacore or tuna. Nova Scotia is so much a land of fish, says a writer, that it produces over one-fourth the value of the entire Canadian catch, or \$9,168,851 worth. Every tiny haven around the extensive Bluenose Land coast harbors fishing smacks galore, while Lunenburg, Canso, Liverpool and Chester are home ports for hundreds of fleet-winged deep-sea banking schooners.

## Reason and Emotion.

What a mysterious conflict that is between the reasoning power, which keeps pointing out the right road, and an ill-regulated emotional faculty, which seeks to draw one along the wrong road. Indulging the wrong habits always makes the upward path so much steeper and the downward path so much easier. How fortunate that man is whose false steps are arrested by a friendly touch of common sense disguised in a flash of satire!—Sir George Reid.

## Nature Is Outwitted.

The man who invented the sewing machine achieved what he was after when he stopped trying to imitate the human hand. If you go into a factory you will see machines doing things which only human skill could do but a short time ago, but the processes are quite different from the manual method. The inventors have risen superior to the formulae that nature would seem to have laid down for them.

## Natural Gas.

Natural gas is probably formed in the earth by a process of natural distillation from the animal and vegetable remains of past geological epochs, and is nearly the same product as is distilled from coal in the retorts of gas factories, only instead of the heat of fires the internal heat of the earth, aided perhaps by chemical decomposition, has caused its formation on a magnificent scale.

## Nature's Error.

Sufferer writes us that if nature had known what she was about when she made man, she would have given him two noses—one to have a cold in and one for general utility. Then you could get the first one amputated (as in the case of tonsils or an appendix) and live comparatively happily ever after. We will call nature's attention to it.—Exchange.

## Spartan Feminine Poise.

Our idea of poise crystallized into definite form when a perfect 36, almost a stranger to us, with whom we happened to be lunching, inadvertently dropped a grape skin down her decollete and, except for one slight and almost imperceptible wriggle, gave no sign of nervous disturbance as long as we were around.—Ohio State Journal.

## Rabbit Hair Supplants Wool.

Rabbit hair is supplanting wool in the felt hat making industry of Australia, where there are thirty factories in operation at present making use of rabbit fur for this purpose. It is said to be superior to the finest merino, and millions of rabbit skins are made use of annually.

## Time for Strategy.

There is no such thing as returning to the days of one's youth. If there were and we were asked if the teacher licked us, our reply would be "Not exactly; we made a strategic retirement after almost losing the seat of our trousers."—Houston Post.

## Kissing.

An optimist holds this pleasant prospect out to engaged couples: "Unmarried couples kiss and forgive. Married couples kiss and declare a truce while the heavy artillery is being moved up."—Kansas City Star.

## Word From Br'er Williams.

"Pay as you go" is a mighty good principle, but de price has got you goin' so fast you des throw 'em de money an' holler: "Keep de change!"—Atlanta Constitution.

## Aspen Wood for Matches.

Aspen wood is used almost exclusively in making matches in Sweden as it is easily cut and porous enough to be readily impregnated with sulphur or paraffin.

## Beet and Wheat Food Value.

That there is more food value in one acre of beets than in four of wheat is the contention of German agricultural scientists.

## A Question.

Why don't we get dimples instead of wrinkles?—Louisville Courier-Journal.

# Just Before the Russian Revolution

By ALAN HINSDALE

(Copyright, 1917, Western Newspaper Union.)

Before the Russian revolution there was no more luxurious dwelling place for a sovereign than the Winter Palace at what was then called St. Petersburg. What its condition is now I don't know, for I have not seen it since it ceased to be the czar's residence.

Not long before the breaking out of the world's war, I was a tourist in the capital of Russia, and had letters to the American ambassador there and to prominent Russians. Through the embassy I received an invitation to a ball at this same Winter Palace. I will not pause to describe the scene of splendor, but will mention one woman, about twenty-five, who was not only very beautiful, but bore on her countenance the stamp of a marked spirit within. "That woman," I said to a friend, "interests me; I would like to be presented to her."

"I have her acquaintance," he said, and will introduce you with pleasure. This he did, but I did not find much comfort in the brief chat I had with her. She seemed to have matters on her mind that prevented her making herself agreeable to an untitled stranger from America.

There is a story connected with her that I will narrate. It was told me by the man who introduced me to her, Paul Kaluzsky.

Kaluzsky came from the same place as she. In their social circle was Stephan Serozha, an intimate friend of Paul, whom Paul described to me as a splendid fellow, endowed with great patriotism. There were two girls between whom he divided his attentions. One was Liza Arkadevna, a modest country girl, the other Sonia Mikhailoff, the girl I met at the Winter Palace. The latter spent much time in the capital and was occasionally seen at imperial functions.

Paul told me that Stephan favored Liza, and that Sonia was trying to win him from her. Stephan admitted that Sonia was secretly in favor of the revolutionists, and was endeavoring to enlist the talented Stephan in the cause of the people. But this was confidential; Sonia was supposed to be loyal to the government.

Beyond the fact that Sonia was Liza's rival, Liza distrusted her. She warned Stephan not only against Sonia's influence, but against giving himself up to association with one of the secret circles of revolutionists which were to be found all over Russia. Liza begged Stephan to consider the horrors of Siberia, and the danger he would run by identifying himself with any move disloyal to the government. "Besides," said Liza, "I am told that no one can tell whom to trust; one's most intimate friend may be his betrayer."

One day it was announced that Stephan and Liza were betrothed. Sonia was present at the betrothal ceremonies. She seemed not in the least to mind having lost Stephan to Liza and wished them both great happiness. In doing so she kissed Liza. Paul who was present told me that when this salute was given, he judged from the way Liza received it that she considered it a Judas kiss. At any rate she seemed turned to ice.

About a week after this Stephan disappeared. It was not feared by his friends that he had been made away with by the government, for he had not—so he had assured Liza—committed any disloyal act, having promised her that he would not do so. Time passed and nothing was heard of the missing man. At last it was reported by one who knew him that he had seen Stephan in shackles on his way to Siberia.

About this time Sonia was placed under arrest by the government, accused of being a member of a revolutionary circle. She had strong friends at court and it was said that they secured her release. At any rate after being held some time her friends expecting every day that she would be sent to Siberia she was let out of prison and restored to favor. It was not long after this that I saw her at the Winter Palace. Paul and I were leaving the palace when she passed out to enter her auto to be driven away to her apartments. I went to Paul's home with him and over a glass of wine and a cigar he told me the story. We little thought that we were so near its climax.

The next day Paul called at my hotel and with a look of horror on his face, told me that when Sonia's chauffeur opened the door of her limousine he found her dead with a dagger in her heart.

I too was appalled but not as much as Paul who had known the victim from childhood.

My first thought was that Liza was implicated in the murder. I suggested it to Paul who frowned it down at once.

I did not receive a solution of the mystery till after the deposition of the czar and the release of the Siberian prisoners. Then I heard it from Paul.

Sonia was a government spy. For revenge upon Stephan who had turned from her to Liza, she falsely denounced him as a revolutionist. Her arrest was a blind. A circle of revolutionists to which she belonged and whose secrets she was giving the government, learning of her treachery appointed one of its number to dispatch her.

Stephan being freed from Siberia rejoined his betrothed.

# Women!

Here is a message to suffering women, from Mrs. W. T. Price, of Public, Ky.: "I suffered with painful...," she writes. "I got down with a weakness in my back and limbs...I felt helpless and discouraged...I had about given up hopes of ever being well again, when a friend insisted I

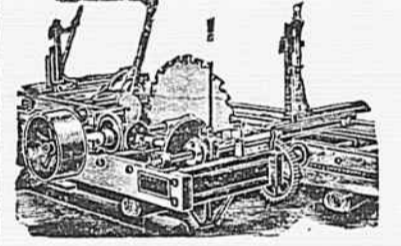
# Take CARDUI

The Woman's Tonic

I began Cardui. In a short while I saw a marked difference... I grew stronger right along, and it cured me. I am stouter than I have been in years." If you suffer, you can appreciate what it means to be strong and well. Thousands of women give Cardui the credit for their good health. It should help you. Try Cardui. At all druggists. E-73

# FIRE INSURANCE

For This World ONLY  
J. T. HARLING  
OFFICE OVER  
Bank of Edgefield, S. C.



Light Saw, Lathe and Shingle Mills, Engines, Boilers, Supplies and Repairs, Portable, Steam and Gasoline Engines, Saw Teeth, Files, Belts and Pipes, WOOD SAWS and SPLITTERS.

SHOPS AND PRESS REPAIRS  
Try LOMBARD  
AUGUSTA, GA.

GEO. F. MIMS  
OPTOMETRIST  
Eyes examined and glasses fitted only when necessary. Optical work of all kinds.  
EDGEFIELD, S. C.

## Auditor's Notice.

All persons owning property of any kind whatsoever, or in any capacity, as husband, guardian, executor, administrator or trustee are required to make returns of the same to the Auditor under oath within the time mentioned below and the Auditor is required by law to add a penalty of 50 per cent to all property that is not returned on or before the 20th day of February in any year.

All male citizens between the ages of 21 and 60 years except those exempt by law are deemed taxable polls. The 50 per cent penalty will be added for failure to make returns.

For the convenience of tax payers, I or my representative will be at the following appointed places on the dates mentioned to receive tax returns.

The office will be open to receive returns from the first day of January till the 20th day of Feb. 1918, as prescribed by law.

J. R. TIMMERMAN,  
Auditor, E. C. S. C.

## Whenever You Need a General Tonic Take Grove's

The Old Standard Grove's Tasteless Chill Tonic is equally valuable as a General Tonic because it contains the well known tonic properties of QUININE and IRON. It acts on the Liver, Drives out Malaria, Enriches the Blood and Builds up the Whole System. 50 cents.

## Ducklen's Arnica Salve

The Best Salve In The World.

# Fertilizers for 1918

We beg to announce that we are now ready to deliver fertilizers for this season, having secured a liberal supply which we have on hand in our warehouses ready for delivery.

Haul your fertilizers now while you can get your supply. Do not wait until there is congestion of freights, when you cannot get goods shipped.

Armour, Swifts and Royster our specialty. Mixed goods with potash, mixed goods without potash. 16 per cent. acid; 26 per cent. acid, cotton seed meal.

The Edgefield Mercantile Co.

# Laborers Wanted

Fifty laborers wanted at once for chalk beds. Good wages.

B. L. MIMS,  
Edgefield, S. C.

# BARRETT & COMPANY

(INCORPORATED)  
COTTON FACTORS  
Augusta - - - - Georgia

SOME STRIKE IT RICH BUT A SURE WAY IS TO PUT A LITTLE IN THE BANK EVERY WEEK

THERE is no doubt about money in the bank, it is sure and positive. Maybe slow, but there is the satisfaction that it is sure. Positive in every way, both that it will grow, and that it is safe.

# BANK OF EDGEFIELD

OFFICERS: J. C. Sheppard, President; B. E. Nicholson, Vice-President  
E. J. Mims, Cashier; J. H. Allen, Assistant Cashier.  
DIRECTORS: J. C. Sheppard, Thos. H. Rainsford, John Rainsford, B. E. Nicholson, A. S. Tompkins, C. C. Fuller, E. J. Mims, J. H. Allen