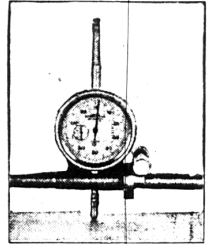


# PUBLIC HIGHWAYS

## FINDING WEAR OF HIGHWAYS

Instrument Recently Designed and Made to Determine Wear of Concrete and Other Roads.

(Prepared by the United States Department of Agriculture)  
Every user of concrete and other improved highways will be interested in an instrument which has recently been designed and made in the research division of the bureau of public roads, for measuring wear of concrete and other surfaces. It is anticipated that from readings made with this instrument a large amount of valuable data may be collected not only regarding concrete roads, but also concerning brick, macadam, and other types of surfaces. The instrument consists essentially of two bearing plates each 2 inches in diameter, pivoted on uniform joints to a spanner 1 3/4 inches long. In the mid point is mounted a micrometer whose plunger has a travel of 1 inch and whose dial is graduated to read to



Measures Wear of Roads.

one one-thousandth of an inch. In order to form a base to which measurements can be referred from year to year, brass plugs are set in the pavement where readings are desired. Readings are taken by resting the bearing plates on the road's surface and allowing the plunger to rest on the base plate of the plug. The instrument is handled with the aid of a level and the spanner bar is held parallel to the center line of the road. Other readings may be taken with the bar at right angles to the center line of the road.

An important advantage of this instrument is that accurate data can be acquired rapidly and without interrupting traffic. The base plate in the pavement is protected between readings by covering it with cotton waste and taping it with cord. The brass plugs are readily set in any pavement while it is being laid and at any future time by drilling holes with star drills and setting the plug in cement grout.

## PAY ATTENTION TO ROADSIDE

It Should Be One of First Places by Which Appearance of the Farm is Improved.

Some farmers evidently consider the roadside along their farms as distinctly separate from and wholly outside of their jurisdiction, and any time or labor expended in keeping it up as so much gratuitously donated to the public. Every farmer should consider the roadside along his farm as deserving as much of his attention as the farm itself. He should consider the road the "front yard" to his farm, and in stead of its receiving secondary attention, it should be one of the first places by which the appearance of the farm is improved.

## MOVEMENT TO BETTER ROADS

State of Maine Votes to Increase Bonded Indebtedness from \$2,000,000 to \$10,000,000.

(Prepared by the United States Department of Agriculture)  
Maine, by an overwhelming vote, recently endorsed the proposal to raise the bonded indebtedness of state highways from \$2,000,000 to \$10,000,000, giving an additional \$8,000,000 to be spent on the state road system. This is one of the instances showing a countrywide movement toward the improvement of highways, as reported to the United States department of agriculture, which administers the federal aid road act.

## Roads Not Developed.

That the roads in this country, although greatly improved since the coming of the automobile, are not yet universally developed to the point where they should be was demonstrated during the stress of war.

## Save Truck Owners Money.

Truck owners know that good roads not only save them money but the shipper and public as well, because they can make faster time and at a saving in operating expense.

## Essentials Are Lacking.

It is the exception to find a truck of sturdy iron supplied with sufficient fresh clean water. Pure clean water is the cheapest thing readily required, but how seldom they have either in abundance.

## Much Money Wasted.

Thousands of dollars of the taxpayer's money are wasted every year in building the wrong kind of roads or in building the right kind of roads in the wrong places.

# Making Your Easter Preparations

The Following Reliable Detroit Firms Are Prepared To Assist You in Your Easter Time Requirements.

Complete Assortments Are Now Being Shown Of The Season's Authentic Style Creations and Latest Merchandise.

A Postal Card will bring you samples of the newest Spring

## - SILKS -

at a saving of 20%

State the kind of silks you are in need of

### National Silk Co.

Sallan Bldg. (2 Stores) Carey Bldg.  
Woodward and Gratiot Gratiot at Broadway

## Klines

177-179 W. WOODWARD AVE. DETROIT

### Preparing For Easter

Wonderfully complete assortments of Women's and Misses' Modes that brilliantly forecast the New Spring Fashions are now on display.

Houses, Silk Underwear, Footwear, Frocks, Millinery, Suits, Fur, Coats and Children's apparel at the lowest prices consistent with good merchandise.



Clothes That Never Fail

There new Spring Clothes—that carry all that's good in Quality, Style, and Workmanship. See them!

## Mabley's

GRAND RIVER AT ORISWOOD

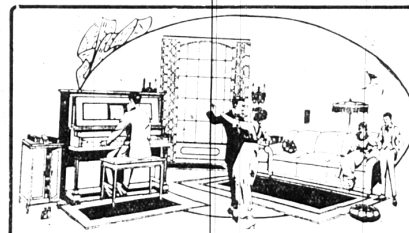


We have the most complete stock of Over-Stuffed CHAIRS in Detroit

Some are covered with leather, some with tapestry, in fact you can find a chair that will be just what you want. Prices, as usual, very reasonable.

## BRUSHABER

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Enabling A Limited Number of Families to Purchase NEW 88-NOTE 1920 MODEL PLAYER-PIANOS Direct From The Manufacturer's Warehouses. Ours is a direct from factory to home proposition, so that it is only reasonable to believe that our factory warehouses should be in a position to save money for every one who takes advantage of this GREAT PLAYER-PIANO COMBINATION OFFER. Here is the offer of one of the largest and oldest piano manufacturers, dating back continuously to 1858. Remember you should never lose to our warehouses if you wish to take advantage of this offer and gain immediate delivery.



### Smart Tailored Suits COATS, DRESSES AND WRAPS

AT MODERATE PRICES AND GUARANTEED SATISFACTION We also tailor from your own material.

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### Everything for the Dress

When in Detroit, come to the New York Shops. You may choose from a large stock, make all your purchases on one floor, "suit-fit the 'hard to match' shades here.

SATIN TAFFETA BROCADE CHARMEUSE GEORGETTE NET TULLE TRIMMINGS

Laces, all kinds, all widths, all prices. Sequin trimming in strap, blouse and bodice widths. Beads, Tassels, Beads, Sapphire, etc. Tulle, motifs, mouillures, etc.

Write For Samples

## New York Shops, Inc.

"Everything for the Dress"

244 Woodward Ave. Across From Grinnell's

### Your Wedding Engraving

SPRINGTIME is a good time for weddings—and, of course, weddings call for engraved invitations and announcements.

If you are going to need wedding engraving and stationery and if you want it to be "just right," be sure to get in touch with our Engraving Department. We can assure you quality work and prompt service.

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STATIONERS, ENGRAVERS, PRINTERS, BOOKBINDERS, OFFICE FURNITURE, OFFICE SUPPLIES WOODWARD AT CONGRESS - DETROIT

### MILLINERY

Hats that are Different, Unusual and Distinctive.

### TAIT SHOP

27 John R Street, Detroit

### YOUR SPRING RUG IS HERE

Caution extended to you in the selection of your rug as well as being a double reward for you. Buy your rug in the last 30 days of the year. The new season of Spring rugs is approaching large and varied. The many beautiful, decorative double and single rugs are here.



### At Sheehan's For Easter

Greeting Cards, Prayer Books, Bibles and Rosaries  
John V. Sheehan & Co.  
262 Woodward Ave.

### "From the Mill to the Wall" NEW YORK WALL PAPER STORE

C. R. JOHNSON, Proprietor  
103 MICHIGAN AVENUE, DETROIT.  
We carry in stock a full line of all grades of Wall Paper. We will gladly send you samples and fill mail orders promptly.

### Rough Oldtime 'Sports'

Pugilistic encounters, dog fights, cock fights and similar performances were the ordinary forms of popular pastimes in the early part of the last century. Bull baiting was common and even this did not afford sufficient amusement in the people in some of the northern towns and Blackburn and Oldham exhibited a strange depravity by compelling old women to race in sacks.—Bicycle Magazine.

### When a Man's Sick

It is when we are sick that we make the hardest call on our philosophy of life. It is the most difficult of mental feats to be resigned to physical suffering and helplessness. There have been cheerful sick men in history, like Alexander Pope. It is true, but they were and are few and far between. Julius Caesar, for instance, proved to be a very querulous man when he was sick.

### Protecting Linoleum

One woman spends two newspapers over her linoleum while preparing her meals, one in front of the sink and the other near the stove. It has been found that in this way the covering remains fresh considerably longer than otherwise. When the meal is cleared away the papers are thrown out, and with them no little grease or small particles which would have soiled the floor.

### Happiness in Serenity

The thing for us all to do is to be serene and happy, no matter whether we are fair and twenty or three score and ten. To have disapproving philosophicalness as something that can't be cured and therefore to be endured. To be kind and gentle and generous and forgiving—if we shall resolve upon all that, something better than youth will be ours.—Exchange

### Acorns as Human Food Derivation of 'Flannel'

The Indians of the Pacific coast region, from northern California to Mexico, eat acorns in considerable quantities. It is not possible that they are made into a sort of mush and assiduously bread. Acorn meal is usually browned to free it from tannin and what ever other bitter principles it contains. In certain parts of Italy acorn meal with the addition of two-thirds of the grain, is made into bread. Some of the earlier philologists claim that the word "flannel" was originally written and pronounced "flannel" and that it was essentially of Welsh origin, being derived from the Welsh "fflanell," wool; but this derivation is considered doubtful by more modern philologists, who regard its derivation from the Danish "flanel," old French "flanelle" or the Italian "flanello," as more probable.