

Gasoline Changes Over The Years

DETROIT (AP) — Back in the days of the Model T Ford the gasoline which powered America's tin lizzies was pretty much what came naturally from a simple refining of crude oil.

Today's gasoline has been described as a liquid method of putting additives into a car's engine. It contains about 80 per cent synthetics and scientists are hard at work on the other 20 per cent.

The gasoline from the pump of your favorite station may have been cracked, reformed, treated to remove sulphur, to remove knock, to prevent corrosion, to prevent carburetor icing, to prevent vapor lock, to prevent gum and wax formation in the engine, metal deactivators may have been added, plus detergents to keep carburetor parts clean, phosphorus to prevent spark plug fouling and dye to make the fuel readily recognized.

For the Model T and other cars of that era it was enough to heat crude oil and draw off the hydrogen and carbon compounds which boiled between 90 and 400 degrees Fahrenheit. These hydrocarbons make up straight run gasoline which has an octane rating of about 50.

If you put 50 octane gasoline into a 1960 model car the engine would knock as if men were pounding it with sledge hammers and the result would be much the same—in a very short time it would crack into pieces.

Low octane fuels tend to explode under pressure and high temperatures. This explosion is the knock you'll hear from an engine. Constant explosions will cause pistons to overheat, burn and crack.

Since straight run gasoline is only 50 octane and modern engines need fuels of 90 octane or more, how is the problem solved?

Refiners use two general methods. One is called catalytic cracking, the other reforming. Catalytic cracking involves heating to high temperatures portions of the crude oil not used for straight run gasoline. This produces highly desirable compounds of high octane ratings which can be blended into the gasoline. Reforming is somewhat similar process using the straight run gasoline. It changes the chemical composition into compounds with higher octane ratings.

To raise octane even higher, tetraethyl lead is added—some to regular grades, more to premium grades.

A national survey by the Ethyl Corp., which supplies the tetraethyl lead compounds, shows average regular grade gasoline sold last month was 92.4 octane, the

average premium grade was 99.3 octane.

T. W. Warren, director of the refinery technology division of Ethyl's Detroit laboratories, says regular grade gas is satisfactory for about 45 per cent of the cars on the road today. Fifty per cent need premium and the other five per cent need super premium grades of more than 100 octane.

Auto manufacturers normally specify whether your new car has been designed for regular or premium gasoline. Other factors also can affect the octane need.

Air pressure is one. A car needs 100 octane fuel at a sea level city such as Corpus Christi, Tex., will need only about 90 octane fuel in mile-high Denver. High temperatures generally raise your octane requirements, high humidity lowers them some.

One factor which affects almost every car is the accumulation of carbon deposits. As the fuel burns minute quantities of carbon build up in the combustion chambers. This cuts the size of these chambers and raises the compression ratio. In 10,000 miles of operation this can become important enough to increase your octane needs by 10 numbers, or possibly from regular to premium grade fuel.

Warren advises that you have your engine properly timed, then test brands and grades until you find the one best suited to your particular car.

Parish House Supper Is Planned

Plans were made for a Parish house supper at a meeting of the Women of the Episcopal Church Wednesday night at the home of Mrs. B. W. Whitford.

The supper will be held Feb. 18.

Dr. Alex Henson gave the devotion.

The program, "One Family In Christ," was presented by Mrs. Nick Howell, Mrs. Earl Van Horn, Miss Maria Travis, Mrs. B. W. Whitfield, Mrs. Bob Easley and Mrs. Paul Nave.

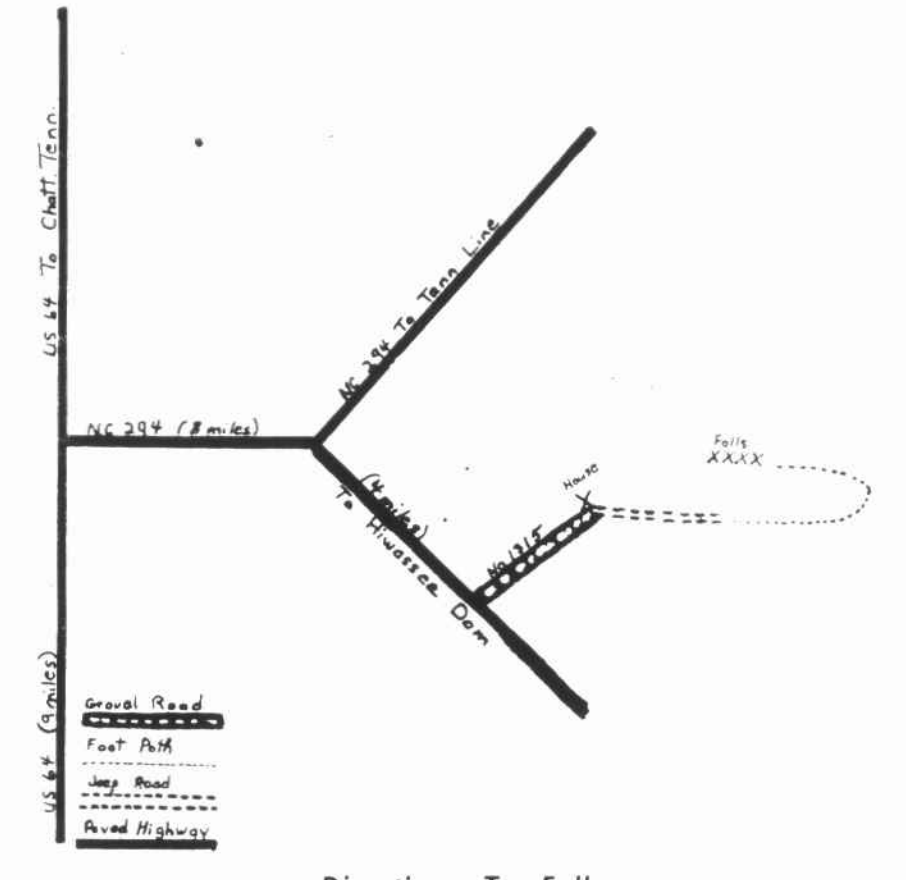
The hostesses, Mrs. John Smith and Miss Maria Travis, served refreshments to approximately ten members.

FINGERPRINTING

It is said the Chinese used thumbprints to sign important documents long before the birth of Christ. This was the forerunner of fingerprinting, which were not regarded as a positive means of identification until the 1800's.



Shoal Creek Falls



Directions To Falls

CANCER CLINIC

First new diagnostic cancer clinic in the United States was opened at Columbus, Ohio, in 1921. Today, more than 2,000 cancer patients a year are admitted to the campus of Ohio State University.

FOR TOURISTS NOW

After Paul Revere's warning that the redcoats were coming, they're shooting now at Paramount's Minute Men waited in Buckman Tavern for the British to show up. Built in 1690, the tavern now is a tourist attraction.

Shucks Man This Ain't No Western

HOLLYWOOD (AP)—For years Hollywood has been seeking a new twist for a Western movie. The one they're shooting now at Paramount is so different maybe it should be called an Eastern.

It's the first Chinese Western—even though two of its top stars are Japanese. Even the title—"Walk Like a Dragon"—sounds more Hong Kong than Wyoming—locale of the movie.

James Shigeta, the "Frank Sinatra of Japan," is costarred with Nobu McCarthy, also Japanese; Jack Lord, from Broadway, and Mel Tormé, the foxy voiced singer turned actor.

After this picture, Shigeta probably will be known as the Oriental John Wayne because he plays a Chinese gunslinger who quick-draws for the kill on the traditional Western street.

Shigeta, star of the "Holliday in Japan" stage show at the New Frontier Hotel in Las Vegas, is taking leave from the show for the movie—his second in less than a year here.

A Hawaii-born Nisei, Shigeta is a handsome singer who has been drawing the women to the Las Vegas show. He's committed for two more movies, including a top role with Marlon Brando in "The Ugly American."

That picture, one of the year's most important, may well make Shigeta the first star of the 30th state.

As an American citizen reared in the islands, the sometime U.S. Marine knew how to ride but he had to be taught to mount his

PUGGY

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Agent Gives Meeting Topic For February

Highest Falls In County Nearly 100 Ft.

BY PHYLLIS BABB

Cherokee County is blessed with many interesting and beautiful spots, perfect for family outings.

The Scout hopes to acquaint residents of this area with some of these places and will give directions for reaching them.

Recently, with the help of Harold Hatchett, county forest ranger, the Scout visited Shoal Creek Falls. These falls are the highest in Cherokee County. Mr. Hatchett estimates that they are from 70 to 100 feet high.

The trip can best be made by jeep, using the above map as a guide, going down the lake from Hotassee Dam. From the end of the boat ramp, where the falls are located, it is about a one mile walk. Later route offers the promise in beautiful mountain scenery.

Know and appreciate your county by visiting the places of interest which the Scout will feature in the future.

Miss Thelma Wheeler, County Economics Agent, has announced the monthly meeting of the Home Demonstration Clubs.

The meetings schedule is as follows:

Jan. 21, Grape Creek, 1:30 p.m.

Mrs. Robert Whitener

Jan. 26, Murphy, 11:00 a.m.

Jan. 27, Valley town, 2:00 p.m.

Mrs. E. A. Buren

Jan. 27, County Home Demonstration Council, 1:00 p.m.

Murphy Power Board Building

Jan. 29, Ringer, 1:00 p.m.

Mrs. Pascal Hughes

"LIVING WITH OTHERS" for February Club Meetings.

This is a challenging topic for to live with others acceptably and agreeably. This is both a family topic and one that each of us needs to consciously consider and study.

The demonstration begins with a definition of manners which rules for living with others. Then this question just logically follows: "What needs to use good manners?"

A small child should know the answer to this—and that is every one needs to use good manners. Good manners should be taught and practiced by each member of the family. Like charity, good manners begin at home.

For those concerned enough to want references we had that there are several good ones and that no one is considered the best authority. You and I have preferences as to which reference we use and on occasion we may need to consult several and then decide which fits our situation best.

Many people fail to realize that rules for living change as the pattern of life changes. Manners are a subject to change as styles in dress, rules of grammar, types of architecture, etc.

To many people manners are superficial. They are something we use only in the presence of people we want to impress. But manners

should be fundamental, because we should be at our best in the presence of our families and close friends even more so than in the presence of strangers or casual acquaintances.

The best reference we can use for getting along with people is to follow the golden rule.

Anyone can live alone. But it takes unselfishness, tolerance, helpfulness, kindness and a sense of humor to live happily with others.

Living with others embraces many other topics such as meeting people, the art of conversation, visiting, attending club meetings, introducing speakers and others equally as significant.

Although this has not been presented to too many clubs this month it is proving to be one of the most addressing subjects we have exposed.

Simultaneously with Home Demonstration clubs the 4-H Clubs are studying "Mind Your Manners."

Mrs. Cecil Mills Hostess To Baptist Circle

Mrs. Cecil Mills as hostess to the Ruth Swan Circle of the First Baptist Church at her home Tuesday, Jan. 12 at 8 p.m.

During business the community mission work was discussed.

Miss Juanita Grant gave an interesting program on Cuba, "What Has Thou Given?"

During the social hour the hostess served refreshments to the following: Mrs. Loren Davis, Mrs. Harry Dickey, Mrs. Boyd Davis, Mrs. Ruth Cheney, Mrs. Everett English, Mrs. Doyle Burch, Miss Wynona Hughes, and Miss Juanita Grant.

The Vonkers, N.Y., harness racing season of 1959 averaged 24,623 fans a night for a nightly wagering average of \$1,932,065.

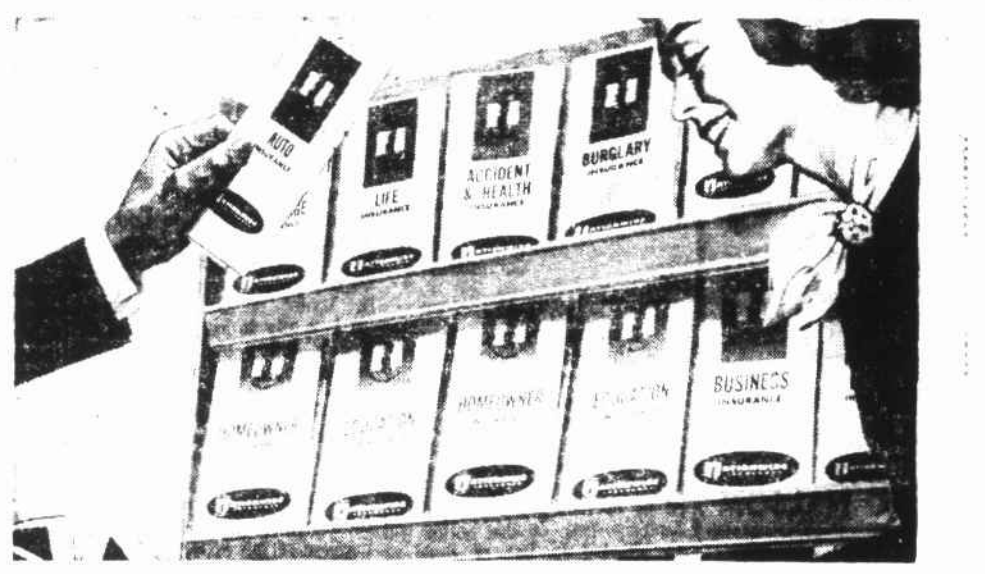
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Attend Meet At Hayesville

Those who attended worship services at the new Presbyterian Church at Hayesville Sunday from Murphy were the Rev. and Mrs. R. A. Potter and sons Billy and Bobby; Mr. and Mrs. Holland McSexton; Mr. and Mrs. John A. Thompson and family; M. and Mrs. J. W. Barrett; Mr. and Mrs. J. B. Gray; Mrs. R. H. Eppard; Mrs. Ann Phillips; Mrs. Dixie Palmer; Miss Hattie Palmer; Miss Elizabeth Gray; M. W. H. Rush and W. A. Singleton.

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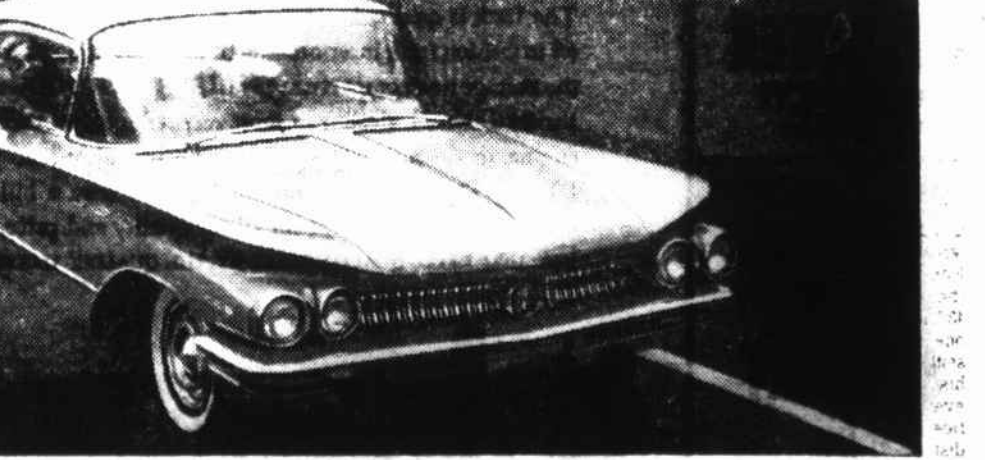
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