## TRUCK OWNERS SAVE IMONEY ON TRAILERS

Be Carried.

HUGE TONNAGE HAULABLE

Average Truck Can Draw Three of Four Times as Much as It Can Carry.

A factor of prime importance in the development of transportation over the highways is the trailer. Unquestionably the trailer has come to stay, says W. D. Allbright, manager of the B. F. Goodrich Rubber company, and its use thousands of new car owners which

7½ tons, loaded, must climb a 4 per cent grade over an ordinary clay road. The resistance is computed as follows:

In other words, it requires nearly 1400 pounds of drawbar pull to carry the trucks up this incline over a country clay road. Compare this condition with that of the level asphalt street. where the total resistance would have amounted to 150 pounds.

CARHOUSE IS COMING HERE

Watch for Harry Glenden Who Travels in Real Comfort.

PETALUMA. July 26.—Harry Glenden, owner of the famous carhouse car "Wanderlust," left this week for Oregon, where he will spend three months. He is going up the valley and return via the coast.

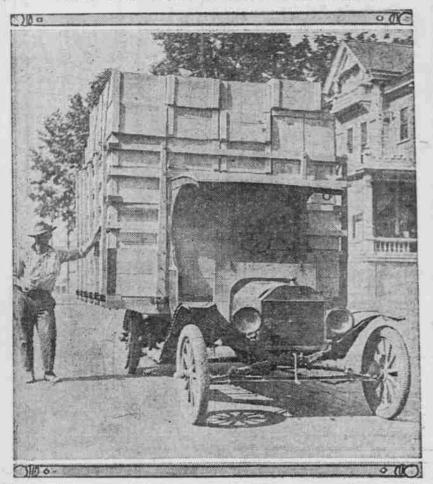
Glenden's housecar is equipped with electricity, gas and has all the latest conveniences of city homes.

He has traveled in the outfit in most every state in the union and has no home, staying at one place for a few

home, staying at one place for a few months and then starts traveling.

Beware of Oil. For the benefit of the hundreds of

PRETTY GOOD LOAD FOR SUCH A LITTLE FELLER!



Day in and day out, this Ford car, converted into a truck, carries a load like this and still is well and hearty. There are 193 boxes in this load. Sometimes it carries even more.

adopting trailers.

From the farmer who hitches a twowheeled gig to the rear of his auto-mobile and speeds away with ten caus of milk to make the 3 o'clock train, to the contractor who hauls 40 tons of crushed stone in trailers with one mo-

crushed stone in trailers with one mo-tor truck's power, business men every-where are realizing that the principle of the trailer is sound.

The average well-built truck is able to haul behind it three or four times as much as it can carry. A striking example of the efficiency of the trac-tor powers of a motor truck was dem-onstraited by an eastern street commis-sioner recently who conducted an exsioner recently who conducted an experiment to cut down the cost of col-lecting and hauling garbage from the city to the disposal plants.

Forty Tons to One Truck.

place, where the horses were unhitched and the loaded wagons attached to a five-ton truck. A load of four and one-half tons of scrap iron was placed in the truck body in order to give traction to the driving wheels. The road stealing entirely, but there is no gain-traveled passed under viaducts, around sharp turns and up steep grades. The total load including the weight of the total load including the weight of the trailers was 27 tons. The test covered a round trip distance of 22½ miles and resulting in the city purchasing trailers and disposing of more than half of the horses previously used.

This case is not exceptional. In Detroit a dealer in crushed stone hauls

This case is not exceptional. In Detroit a dealer in crushed stone hauls 30 tons regularly with one truck. In Los Angeles recently a trailer-truck transported a 40-ton load over a distance of 23 miles; in an Indiana town a two-ton truck pulled a train of six trailers carrying 300 sheep, and in Chicago recently an enormous dynamo weighing 43 tons was hauled by one motor truck.

The trailer uses the surplus power of the truck's engine which would be otherwise wasted. In addition to carrying capacity every truck has drawbar pulling power. If the motor truck operator is not availing himself of the latent power of his truck he is neglecting a factor which might reduce his transportation requirements by 200 or 300 per cent.

Motor truck operators must bear in mind, points out the Goodrich company,

Motor truck operators must bear in mind, points out the Goodrich company, the amount of load which a truck can haul behind it in trailers depends upon the conditions of the road and grade met with. For instance, a three-ton truck loaded to capacity ascending a 20 per cent grade could hardly haul a single empty trailer behind it, so nearly has its capacity for drawbar pull been reached. But this same three-ton truck spinning along the level street could haul probably 24 or even 30 tons.

Many experiments have been conducted to determine the resistance offered by various kinds of pavement and road surface to show the effect on the operation of the motor truck. The following table gives the generally accepted results of these investigations:

Table of Road Resistance.

The effect of grade or incline is determined mathematically—a 1 per cent grade requires a 1 per cent grade requires a 1 per cent grade requires a 1 per cent pull. For example, a truck with a gross weight of 10 tons, driven up a grade of 5 per cent will require a force of six-tenths of a ton, or 1200 pounds. For each per cent of grade to be encountered a drawbar pull of 1 per cent of 2000 pounds is required, or a drawbar pull of 20 pounds for each ton. When road resistance an "resistance due to grade have been computed, they must be added together in order to give the total resistance ofered by the given haulage condition. Say a 3½-ton truck, weighing

and importance will multiply as the nation's roads become improved. So economical has the trailer proved in India rubber. Mineral oils are not as many lines of haulage that every operator of motor trucks should carefully analyze his delivery in view of adopting trailers. floor, and anyway keep the tires out of oil if you do allow it to gather.

THIS IS SEASON WHEN THEY WILL TAKE ANYTHING.

Good Lock Device.

This is the particular season of year Regular horse-drawn wagons were when car stealing is at its height and sed to collect the garbage from the owners will do well to observe every districts, bringing it to a designated precaution. If they would display a place, where the horses were unhitted small fraction of the ingeunity shown and the loaded warpens attacked to

the boy may be overheard by some-one who can pass himself off as the owner if of the same build and descrip-tion. Spare tires also should be locked,



95%

Puncture



CUTS (Note the Construction of This Tire)

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The Car of a Lifetime

4-Passenger, \$2500 5-Passenger, \$2500

Sport Roadster

Wray Motor Car Co.

as some make a specialty of stealing be more particular about the antece- these lines will be just long enough these and even tires in use. Two brand dents of any used car offered for exto hold the lamp off the floor.

Spark plug spares are frequently interest whells of any lines will be just long enough to hold the lamp off the floor.

on the rims in front of a lighted theater n New York.

The foreign demand for cars is being aken advantage of by thieves who are oing a very nice export business. It is said about 90 per cent of the cars tolen are exported. A fence for stolen. ars has been discovered in Cuba from

Slack in Drop Light Cords. A\*convenient arrangement for taking up slack in drop light cords is to put section of rubber hose, closing each the cord on two pulleys placed at convenient locations. The cord should be fastened at two places to pieces of heavy twine, clothes line will do, and then a weight is hung on each end of the line. The cord as suspended from the wheel.

jured while being carried in the tool box. An excellent method of guarding against this is to slip each plug into a section of rubber hose, closing each end up with a bit of waste, to prevent

## Buy your car more power



To Control Excess Oil



groove of each iston. In the use McQuay Norris Leak-Proof Piston Rings for full

Turn all the gas you buy into power. Make sure that none of it leaks past your piston rings. Make certain all your gas is compressed and turned into power. You can do it by installing the genuine McQuay-Norris Leak-Proof Piston Rings.

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BEST IN THE LONG RUN

