Bankers to Give Auto Credit O.K.

Condition of Industry Vastly Changed Since Pioneering Stage of a Few Years Ago.

Business Is Stabilized By JOHN W. PRENTISS. (Reprinted from The Spur, July 15,

1920.)

Five years ago one of the biggest banks in New York refused to accept a well-known motor stock as collateral in an ordinary call loan. ing house in the world became associated with the General Motors caused this transformation in the attomobile industry? Obviously, it has been the realization on the part of the banker in the meantime of the fact that he had greatly underestimated the strength and the qualities of permanency inherent in the motor industry which make it today, for instance, second only to the iron and steel industry in size. But more specifically it is due to such facts, for has since that time distributed in cash dividends more than \$55,000,000. all paid out of earnings, and has reinvested in its business, also out of earnings, twice that amount, until today the value of its gross annual the gross business of any railroad system in the world.

Financiers Were Too Slow. The average banker is slow to change his opinions and his mode of life. That is perhaps one of the reasons why most bankers are called conservative. That is also perhaps the reason why 10 years ago every one in Wall Street did not appre ciate that transportation by means of gas engines was a coming means of transportation and that transportation by steam engines was I going to be less profitable in the future on sult has been that the so-called Wall Street community (our national investing public) has lost money in middle west instead of on Manhat- end is not there. tan island made a lot of money in motor car securities.

anker had a motor car which he asked some five years ago when t pensive fad. Today he finds that he must not only have one himself, but answer was approximately this: that his wife or his daughter has one. that his butcher has one, that his grocer has one and that he is absolutely dependent upon the motor car. He can go nowhere without the danger of being run over by a motor car. As a matter of fact, he deupon it almost entirely for his daily bread and his daily trans-portation. In spite of this fact there are a good many people in the bank-ing community who seem to think that the motor car industry is not a staple and permanent business. A well-known banker in New York the other day said to one of his best de-positors. "How long is your motor car business going to last?" The motor car man replied, "How long is your banking business going to last?" and added, "Is this bank gobanker allowed that he was and the motor car man said, "So is our com-

Trucks and Cars Essential. We hear a good deal of talk in the newspapers these days of tight money-that loans to automobile companies are going to be restricted on the theory that the automobile is a non-essential. In the first place. very few automobile companies borrow much money-in the second place the car is not a non-essential. It is distinctly essential. The word really is no such thing today. Twenhorse and buggy to drive him to town. Today he has a so-called pleasure car which costs less to run than the horse and buggy and which does 10 times the work.

30,000,000 Cars for U. S. Much discussion has been heard for a good many years about the saturation point in the automobile business, but no saturation point will probably be seen until there are at least 30,000,000 automobiles in the world and today the United States controls the markets of the world for motor cars. This is the only country which has learned how to produce in quantity, to standardize its output and therefore to produce cheaply.

In the United States today there are 7,800,000 (estimated) automobiles and trucks in use; in England there are 625,000 (estimated) automobiles in use; in France there are 280,000 (estimated) automobiles in use, and in all Europe there are 1.000,000 (estimated) automobiles in use. The rate of consumption in the United States is going to require " least a million cars and trucks a year for the next five years. What the demand for the rest of the world will be it is hard to foretell, but it is a well-known fact that a mediumpriced American automobile can be sold instantaneously in any part of the world today and in many foreign countries it brings a higher price in American dollars than it brings in this country. Further-more, the average life of an automo-bile is only about five years.

Ford's Doubting Thomases. A few stories illustrative of the point of view of motor industry leaders with respect to the so-called "saturation point" in the motor indus-try are worth repeating. We recall, for instance, the conference which Henry Ford held with his subordinates some years ago to discuss 80 cents a gallen for gasoline.

Dealers' View of Credit Situation In Nebraska

By CLARK G. POWELL. Secretary of The Omaha Automo-

bile Trade Association. Why is the automobile put in the tant question unanswered. are asking their bankers.

derstanding between our financiers horse-drawn vehicle. and the men who are using automoransportation difficulties.

No doubt there is ample justificaion for putting the damper on speculation and profiteering, but why any sane man should choose to class beyond explanation.

Some time ago member banks in the Tenth Federal Reserve district were informed that the Federal Re-A few weeks ago the greatest bank- serve bank at Kansas City would case? It would be very simple. discontinue to rediscount automobile paper and this action has vircompany as its bankers. What has tually forced many bankers to refuse to loan money for the purchase the normal rate of interest, money titude of the banker toward the au- of automobiles, trucks, and acces- to be used to move grain, to feed sories.

Industry Handicapped.

Although pressure has been brought to bear upon the situation rom various angles, supported by indisputable evidence that the auto mobile and truck are vital factors in our very existence, the Tenth Federal Reserve district has turned a deaf ear. In this district they have seinstance, as that the very company verely handicapped the second larg-whose securities were not acceptable est industry in the United States, the as banking collateral five years ago automobile industry and its kindred industries.

According to interviews with various bankers and others who have studied the situation, some action on the part of the Federal Reserve volume of business is greater than ulation and profiteering. This district has put into effect a graduated sterest scale somewhat simlar to that of the Bank of England. This limits the borrowing power of the banks by raising the interest rate when a stipulated credit rating is The theory is that this exceeded. action will force the banks who are overloaned to reduce their loans

plans for an output of 25,000 cars. His "young men," as he called them, rose in revolt at the suggestion; told Mr. Ford that he could not sell 25,-000 cars in any one year, and that account of the inroad made by the even if he could, he could not obtain gas engine. At any rate the banker the steel to manufacture them, to had no confidence in the gas engine which this man of wonderful vision Department of Agriculture proposition and retained a good deal replied as follows: "Boys, you are of his old-time confidence in the all wrong. I can take a map of steam engine proposition. The rethe United States, cut it into four sections, sell 100,000 cars in each section and only scratch the surface. How well Mr. Ford prophesied is railroad stocks and bonds while the element which saw the future in the Ford company will sell this year motor car and which lived in the more than 1,000,000 cars, and the

Durant's Answer.

looked upon more or less as an ex- saturation point would be reached in the automobile industry, and his The saturation point in the automobile industry will be reached when they stop growing boys." Mr. Durant's meaning, of course, was that when generations stopped succeeding one another the uses of automobiles would diminish, but while population continued to increase the demand for automobiles would continue simi-

Relieved Congestion.

Recently such things have been common as sending a whole flotilla of automobiles over the road in the height of winter and sending fleets of trucks to all parts of the middle west to move their own feul and iron and steel, which would be impossible in any other industry; but the automobile men were able to do and thus maintained production ing to be in business next year?" in the early part of this year when Whereupon the highly indignant other industries were practically susin the early part of this year when pended. The writer, for instance, saw dealers from Richmond, Va. and Dallas. Tex., driving three and five cars over the road from Cleveland, O., last spring. Thousands of miles of inconvenience for only three cars, and yet there is talk of saturation in the motor industry! Need Greater Production.

Not until the rest of the world has as many cars as the United States has do automobile men believe they need concern themselves with any- gasoline-driven machinery. thing more than temporary abate-'pleasure car" is a misnomer-there ments in the demand for cars and when, and if that condition is ever ty-five years ago the farmer had a reached, there will be a demand, as indicated above, for replacements alone of from 2,500,000 to 4,000,000 cars a year, which is from two to four times as many cars as have ever been turned out in a single year. The day is rapidly arriving when this great industry, which was looked upour with suspicion by so many of the banking fraternty, is coming into its own.

Cole Aero Eight Stock Car Sets New Cuban Speed Record

Although the Cole Motor Car Co., ton entry swung easily into first place. This victory for economy was made over cars light and heavy, n common with most manufacturers of high-grade motor cars, long ago withdrew from the field of track and all classes and descriptions. racing, indivdual Cole owners are many of the finest cars in America tolling up some remarkable victories being represented. in stock car events in various parts

of the world. A few weeks ago the Cole Motor Car Co. received word from Havana, Cuba, to the effect that Roland economy, acceleration or "get Markham, driving a stock Cole away," fast speed on high gear, low speed on high gear, high gear powset a new stock car mark for Cuban er on hills, and fast high gear powdrivers by going a 10-mile course in er on hills. and 10 seconds, or at

Markham's latest victory is the ton Minute-Man Six stock car desecond in which, with an Aero- feated all of the contesting cars on light, he has beaten the field of all points. fast cars and established a new Cuban record. In a 30-mile race on the same track a little over a year ago, Markham's Cole Aero-Eight traveled the 30 miles in 29 minutes

world's victory over cars of all makes and kinds, some of them speand 15 seconds. Markham's newest Cuban record cially built. The two Lexington was established on a one-mile dirt winners were stock cars with the track used ordinarily for horse rac- exception of their special bodies. ing. The Cole entry was a regular stock chassis.

English motorists are now paying

and it is apparently accomplishing its purpose in this respect.

Transportation Essential. But this still leaves the all-imporionessential class by the Tenth Fed- should the farmer be forced to find eral Reserve Bank of Kansas City, other means of going to and from is the question which thousands of his farm and of hauling grain, catautomobile, truck and tire dealers the cannot deny the fact that the automobile and truck provide faster Apparently there is a lack of un- and cheaper transportation than the

If we accept the motor vehicle as a time-saver and an expense rebiles in their daily tasks as it would ducer, why should we discourage seem that the automobile and the its sale? Would it not be better truck provide a real solution to our to even make an exception on automobile paper which would favor that industry

If the action of the Federal Reserve bank is aimed at the food speculator, the profiteering landtransportation with non-essentials is lord, the man who is floating stock ssues, the man who is speculating on ridiculous real estate values and numerous others who come, under this class, why don't we cinch our

> We might rule that the banks, regardless of whether they were overloaned, could borrow and loan, at furnish transportation. This would tend to stop speculation without harming necessary progress.

> Necessity Is Proved. Numerous and varied facts have been supplied by those connected with the automobile industry and broad-minded financial experts, which prove beyond doubt the nefor motor transportation. cessity Some of this data is submitted here-

> The National Automobile Chamber of Commerce of New York City an investigation recently, which developed the fact that farmers, doctors, salesmen, lawvers, contractors, real estate and insurance men were the largest buyers of motor cars. Picture these man without automobiles today. Their efficiency would be cut in half. This same investigation developed

the following facts: cards sent to car owners.) 37 per cent of car owners improve their living conditions because of automobile.

Farmers May Get

Wheat Straw Fuel

To Evolve Plant for Distil-

ling Gasoline at Home.

fledged gasoline plant capable of dis-

straw going to waste west

cornstalks wasted in the

of all gasoline now manufactured.

Experiments so far have extended

nly to wheat straw. If cornstalks,

United States to more than equal

all the gasoline now produced. There

are also possibilities in sugar cane

"Wheat straw when put through

the same process used to make gas

out of soft coal, produces a gas which is almost identical with illu-

mirating gas, and during the war all |

the London omnibusses were suc-

cessfully operated on illuminating

gas, as well as a great many of the

lorries at the front. Automobiles

have been run with wheat straw gas

as the motive power. This has been accomplished by carrying the gas in

"The problem before the depart-

ment is the liquifying of the gas

so that it can be used from an or-

linary automobile tank. They are

gas container which will be within

the means of the ordinary farmer

In Economy Drive

"We beat 'em again," is the word

just received by the local Lexington

dealer, when the Minute-Man Six

This time it is for economy, and

won over a field of 12 contenders

with a showing of 241/2 miles to the

gallon. The record made at Nor-folk, Va., upon a heavy track, churned into mud as cars of all

makes and kinds struggled for su-

fremacy.
In the final showing the Lexing-

Other recent Lexington victories

were made when a Lexington won

a \$5,000 New York open challenge

One hundred and nine cars ac-

cepted the challenge and a Lexing-

Again when two Lexingtons fin-ished first and second in the Pike's

Peak hill-climb classic in face of a

Combined federal and states ex-

enditures for road building may

reach a total of \$250,000,000 this

blinding snow storm, they won a

for stock cars, covering gasoline

up another record to its

Against Big Field

who has an automobile and

Lexington Winner

hung

and the refuse of the cotton plant.

"According to the Department of torn down and built up by the men,

on of wheat straw to equal 40 gal- and other engineers. D.

Agriculture there is gas enough in a under the direction of the designer

lons of gasoline. There is enough White, creator of the LaFayette,

which are richer in carbon than at varying speeds and over all sorts wheat straw, can be used, there are of road.

also hard at work on a retort and are of the same length and all of

ng instructor.

C. Howard."

Farmers own one-third of the passes, er cars in the country. Seventy-eight per coat of their release is for business, and a recent canvass of farm owners showed that they had increased their productivity 68 per cent through use of the automobile.

used more or less for business. 60 per cent of mileage of average car mileage and 78 per cent of farmer car mileage is

34 per cent of average mileage is instead of trolley or railroad, or where there is no other means of communication.

Average car owner adds 57 per cent to his output through use of automobile; tarmer adds 68 per cent to his efficiency. Net Gain of 3,000,000 Men.

The use of the passenger car, ac-

LaFayette Factories

elievers in the economy of high

quality and consequently high priced

proper lubrication and expert me

ward Co. "In order to have every La-

Favette distributor's service station

plained in detail by specialists; then follow long rides in a LaFayette car

"W. A. Houser, technical manager

of the plant, is in direct charge of the school while F. E.Cooper, super-

intendent of final inspection, is lead-

"Between serving in class room

and personally testing every La-

floor, D. McCall White is kept busy.

'Personal test drives' are made

both by him and his co-producer, E.

Weak Valve Springs.

Weakening of the springs which

lose the valves is a common cause

f faulty engine operation. When-

ever the valves are taken out the

springs should be examined to see that they are all of the same length,

or rather that all of the inlet set

up to equality with its fellows.

Open Service School at

manufacturing and selling passen- thing which stands in our way is the ger cars, parts and accessories, there lack of transportation, both passenremains a net gain of more than ger and freight, but our federal re-3,000,000 men. If one were to add serve system sees fit to curb the the productive efficiency of the 750,-000 motor trucks now in use a still greater gain would be shown, Farmer Greatest Gainer.

The largest gain in productivity has been in farm life. There are

2,367,000 farmers owning cars. The answers from farmers reported 68 per cent increase in productivity of the owner or an addition equivalent of 1,600,000 hired men.

cordingly, has meant a net gain to Acceptance Corporation, the largest industry of 3,000,000 men. There exclusive automobile financing comare more than 7,000,000 automobile pany in the country. This corporaowners in the country, each increas- tion has found motor transportation are finding it very profitable to loan to the point. ing his efficiency 56.7 per cent one of the safest things to deal with. (Compiled from replies to question through the use of the car, making Many of us might gain much knowlan addition to the business pro- edge from looking over their recductivity of the country in excess ords. This corporation is doing of 3,900,000 workers. As there are business at the rate of \$100,000,000 notes from farmers bearing 6-7-7-9 between 800,000 and 900,000 men a year and they have found the fol- per cent interest.

for the six months between April the smaller banks. . and September 30, 1919:

Average Age of Purchaser 25
Average Car Cost \$1.044
Average Note \$591
Average Income (Month) \$275
Average Monthly Payment \$59
Average Per Cent Payment to Income 29.7 per cent
Average Per Cent Note to 4
Car 56.2 Per Cent
Average Real Estate Owned \$6.532

This would indicate that these about 4,000 people. men are well able to buy automobiles and they are certainly entitled Something Wrong.

Evidently there is something wrong with our scheme in this distor transportation and why an agritoday than there has ever been. Nebraska is reported to have a 117.6 like this: per cent crop compared with the av-Other states in this section have had bumper crops. Our security certainly is gilt edge. The only

have bumper crops. The security is gilt edge and the Federal Reserve bank at Kansas City has the power to both issue and borrow

Hardship on Banks. According to numerous distribu-Still another angle of the situation ters, the ruling regarding automobile is presented by the General Motors paper is forcing a real hardship on the dealer to come to his office. Then forcing the withdrawal of money was going on. on time deposit. Some individuals the money which they have on deposit drawing 4 per cent interest to finance the sale of automobiles. banker. "Come in and I will handle life Most of these loans are secured by

lowing things to be true of the man who buys an automobile "on time."

The figures below are the average just what is harmoning 20, illustrates

AutoComes

At least one Iowa automotive dealer has found a way of getting co-operation from banks in these times of tight money. His methods, though drastic, were highly effective For obvious reasons the dealer's Term "Pleasure Car" a Misname is not given, but he is one of the pioneers in the motor car

When his home town bankers began to tighten up this dealer went to credit in buying transportation as to the banker with whom he had much as in buying a house to live in. always done business and asked for assistance for himself and his customers. It was not forthcoming.

The dealer had lived in the town Few, if any other districts, for years and had a pretty good have found it necessary to curb mo- idea of the citizens who were depositors in this particular bank. He cultural district should be chosen to took time to write out a list of try out such a plan is beyond conception. Our financiers tell us there accounts in this bank. Then he beis more money in the United States gan to approach them one by one, His conversation ran something

"You have a few hundred dollars erage for the last 10 years. Iowa is on deposit at the Blank bank, haven't reported to have a 107.2 per cent you?"

"It's drawing 4 per cent interest?"

sonally guarantee every note. Don't you want to double your returns?" If our bankers are pinched why doesn't our federal reserve system They knew the dealer and had concome to the rescue? Our farmers fidence in him. They also knew the thought. notes were A1 and they saw the

They wanted some of the 8 per cent money. Two or three days later the banker

gan to feel the effects. Finally after a good many savings deposits had been removed he asked some of the smaller banks. It is he asked for an explanation of what

less with my depositors," said the

your paper as usual."

And in at least one town the war

Why Auto Tires Do his life, he is helping the carcass to perform its duties properly. The tread will give him maximum wear; "Motorists who have become firm Not Require Oiling the side wall will protect from the car-

cars have learned the importance of Fabric Interwoven With Rubber Forms Springy Body chanical inspection," asserts Ralph Hitchcock of the LaFayette-Hay-With Durable Qualities.

Similarly, William C. Durant, the Automobile a Staple Business.

Automobile a Staple Business.

Ten years ago our Wall Street

Ten years ago when the will require for his automobiles, are adapted of the will require for his automobiles, are adapted of the will require for his automobiles, are adapted of the will require for his automobiles, are adapted of the will require for his automobiles, are adapted of the will require for his automobiles, are adapted of the will require for his automobiles, are adapted of the will require for his automobiles, are adapted of the will require for his automobiles, and a coal mine in Ken
mitted from the cities where disputched by motorists, asserts

financing paper on the resale of the will require for his automobiles, and farm machinery," says J. R.

O'Neal of the Nebraska Oldsmobile tributors are located. Engine, trans
O'Neal of the Nebraska Oldsmobile tributors are located. Engine, trans
O'Neal of the Nebraska Oldsmobile tributors are located. Engine, trans-Here is the answer:

strength and shape. Friction gum afraid to deposit their money in is the lubricant.

Core Must be Taken.

"Like the human body the tire may look good on the outside, but 'shot' inside. Its greatest enemy under-inflation. Abusive treatment causes so much bending, flexing and chafing, that the carcass, in spite of its enormous strength, is unable eventually to bear-up and is broken and torn.

ayette that comes off the assembly "In the fabric tire, the carcass is constructed of interwoven strands of cotton. Fabric is built up layer upon layer, each thoroughly impregnated with rubber. The number of these plies, each of which is cushioned, depends upon the size of the casing. The earliest successful tire was a fabric, according to the Mil-ler Rubber Co., Akron, O.

Bult for Endurance.

"The cord carcass is constructed of layers of cords which run parallel in each ply and are not interthe exhaust, as the exhaust springs woven. The number of plies, each will probably be a little longer than of which is run at right angles to the others. If one spring is shorter the other, varies with the size of the than the others in its set it should tire. So strong are the carcasses must be put under it to bring tension that mount well up into the tons. "When the motorist takes care of tor and make trouble

the side wall will protect from the cass to the rim, and the breaker strip will break the force of the

Truck Agent Sells Sale Contracts to Farmers

"During a recent trip through the "If present experiments being under the direction of an expert who dertaken by the Department of Agriculture terminate satisfactorily, it makers, a post-graduate service and constant flexing would seem to J. W. Kenneth of the Indiana Truck won't be many years before every school has been opened at the plant. demand oiling. Automobile bear-corporation, "I picked up some valu-farmer will have on his farm a full- "Men who have had years of exings and all working parts of a able information as to the scheme

"The fabric carcass of the tire tions, visit the small towns that are men." is much like the human body. For surrounded by rich farms and where he ne McCall one thing it is self-lubricating dur- the farmer has money. They get White, creator of the LaFayette, ing its life. The breaker strip is its acquainted with the banker in these lectures on the engineering features backbone. Plies of fabrics are the villages and learn of the fellows who of the Mississippi river to equal at this rate one-fifth the driving power of all gaseline now manager, talks on production methods; ignition and carburetion are ex- gether. The fabrics carcass gives farmers far out from the cities are banks, fearing additional taxation by state or government, so they have scads of cash on hand at home. This distributor shows the farmer a bunch of notes bearing 8 per cent interest that fall due from month to month; they show him that a substantial payment has been made on the truck by the purchaser, which shows good faith, then the distributor allows the farmer an additional discount of 2 per cent, and he buys the notes for cash."

> Vacuum Tank Needs Draining At the bottom of the vacuum tanks, which are now used on so many cars to secure proper fuel feed, there is located a drain cock. Many

owners seem to think this is some sort of an ornament, but it should be opened at intervals, once a week or so. Generally a little water and possibly some rust will flow out before gasoline begins to come. In many cases it will be necessary to insert a bit of wire to clean out the drain cock of an accumulation of foreign matter. If this latter is perbe stretched or else a metal plate that they are able to stard blows mitted to remain long enough it will work its way back into the carbure-

Railroad Line Direct to Coal Fields to Be Given New Name-Buys Forest.

During the last-two months. Henry Ford and the Ford Motor Co. have purchased the Detroit, Toledo and Ironton prilroad, a tucky. And it is reported that other

I wo thousand railroad are automatically made In the near future they will be permitted to share in the investment opportunity with the thousands of other Ford employes. The minimum wage system and bonus distribution also will apply to the rail-

The Detroit, Toledo and Irontown railroad will soon be known by another name. Avoiding congested centers, the railway is a direct line to the coal fields of southern Ohio. and the West Virginia and Kentucky boundaries. Solid coal trains may be routed through to Detroit without delay or interference.

Timber from virgin forests of the Upper Peninsula of Michigan will be used to furnish lumber for Ford automobile bodies and other requirements. Another link added to the saw mill, located just outside of

These acquisitions are wonderful inks in the chain of Ford industries. Fewer outside-organizations are being depended upon year by year. Already work on the Ford car and Fordson tractor commences with the ore in Ford furnaces. Soon the coal will be transported from mines on a Ford railroad, and soon the timber will be cut from Ford virgin forests. Including these new additions, the direct Ford payrool now contains approximately 100,000 names.

Lubrication Table.

The following table may be acepted as generally accurate in its recommendations for lubrication attentions to the various parts of the mechanism, though there will be variations in regard to certain cars and models

Daily Lubrication. Clutch collar and thrust bearing: rease or graphite. Spring bolts: grease or graphite. Drag link joints or steering gear; rease or graphite. Tie rod and king bolts: cylinder

Steering gears case: grease or Brake levers and clevises: cylin-Commutator: cylinder oil irops).

Steering post: cylinder oil. Brake shaft and pedal bearing: ylinder oil. Lubrication Every 500 Miles.

Crankcase: cylinder oil, drain, lush out and refill. Magneto distributer: drop of cylnder oil in holes. Gearcase: oil, light in winter and eavy in summer

Spring leaves: graphite or heavy

Lubrication Every 1,000 Miles. Wheel bearings: grease or graphe after thorough cleaning. Universals: grease or graphite.
Torsion tube, radius rods and milar parts: grease or graphite.

winter and heavier for summer,

wire will quickly be worn through. which the use of the car has wrought, By wiring under the felloe a more that its real part in the economic permanent repair will be secured. | (Continued on Page 4-C. Calumn One)

Into Favor

Passenger

nomer In Day When Passenger Vehicles Are Productive Force.

Rapid Forward Strides

By CHARLES CLIFTON. President, National Automobile Chamber of Commerce

The greatest single new productive orce in the development of the United States in the past 20 years, has been the automobile

Scarcely two decades ago, highways transportation the world over was no faster, hardly more efficient, than the caravans which pushed their way across the desert to Babylon 2,000 years before. The introduction of the passenger car has wrought "I have some good farmers' notes a revolution in travel almost over here on tractors and cars. They'll night and the changes which are topay you 8 per cent and I will per- day being brought about through the ever broadening use of the motor vehicle, have already geared a world to The depositors were business men. a new efficiency of commerce, a new standard of life, a new philosophy of

As the telephone brought communities into closer contact mentally, so the automobile is serving to bind communities together physicaliv. As the railroad made possible long distance communication, so the automobile has eliminated the distance between the dweller in the city

and in the country.
In every field of action whether it be commercial, scientific, govern-The dealer's answer was short and mental, sociological, the use of the passenger automobile plays its part "Don't do any more of this busi- and already the giant power it wields is reflected in a stimulated national

Time, that ever vital factor, has met its master. Mileage has succumed and modern industry finds the motor vehicle an indispensable tool in its complex equipment. Even our merchant marine finds new ladings brought to its docks in foreign fields through the steady develop-And A Coal Mine ment of virgin industries abroad by this new unit of transportation.

Opens New Markets.

Nor does the motor vehicle's use lone reflect its influence on the world's trade. As the passenger car has come into more general use, as city after city, state after state, show a uniform increase in the numher of passenger cars upon their highways, a new market to less future has been opened up to less future has been opened up to the world. The "Men who have had years of experience on high-grade cars, who car are oiled against friction. Why employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed in the employed by one of our big, alive thousands of men employed by the men empl ing power which calls for the produce of the farm, the loom, the factory, for the new machines which are ever in the course of produ steel, leather, lumber, rubber, a thousand other commodities. New life has been infused into the veins of American industry through this new demand.

Productive Efficiency Increased. As the manufacture of the pasof other producers it has also increased the productive efficiency of

all of its users. The truth of these statements is emphatically demonstrated by answers to thousands of questionnaires directed to passenger car users of the United States by the National Automobile Chamber of Commerce. The replies received indicate that of all the passenger cars about 90 per cent are used gentrally for business, while of the few owners whose chief purpose in the purchase of a chain of Ford industries is the Ford | machine is recreation, half use their cars instead of the trolley car while 50 per cent of the remainder state that the passenger car has solved their housing problem by permitting them to take homes farther away from the business district. A typical example of recreational use is that of a farmer 14 miles from town whose family can now enjoy community and social life.

Man Power Multiplied.

Of the actual mileage of cars on which figures were obtained about 60 per cent was for strictly business purposes not including use of cars in place of trolley or railroads or for shopping. The average increase in business productivity due to motor cars was 56.7 per cent. Translated into working capacity this means that the 6,800,000 cars in daily use in America add every day the equivalent of over 3,800,000 workers to the nation's productive forces. This is equal to nearly a sixth of all of the wage earners in America. So the automobile industry has increased America's man power by one-sixth at a time when man power is the world's most serious problem.

To carry it one step further, since the number of men employed in the sales and manufacture of passenger cars, including the making of parts and accessories is about 800,000, the industry can fairly claim to have contributed to the nation four times as much as ft has cost in man-power.

That this ratio is approximately correct is shown by arriving at it from another basis of reasoning. The number of passenger vehicles produced last year was 1,650,000, or the equivalent in working capacity of rumber of men engaged in making them was 232,000. Again the ratio is four to one. Perhaps no other industry can show such a tremendous dividend in productive force as this. Only the most advanced production methods of American genuis make

is possible. Nation's Wealth Enhanced.

As for the direct value of the passenger car to the nation in dollars and cents, any estimates which may reasonably be made reach into figures of a size which only a world accustomed to war mance could understand. More than \$1,000,000,000 is devoted to the manufacture of vehicles alone. The capital invested in the manufacture of parts, acces-

Gearcase: drain, flush with kerosene and refill with oil, light for

When the cross pieces of the anti-skid chain break, so that the chain strikes against the fender in passng, it is poor practise to wire the mobile investment itself is less than broken pieces across the tire, as the 2 per cent, but it is in the effect

Broken Chains.

Cadillac of Vintage of 1905 Here



A 1905 Cadillac single-cylinder | play in the salesroom of the J. H. | the days when it was real sport to motor car, which has not been re-painted since it was built, is on dis-