GREASE IMPORTANT

If Drivers Had More Knowledge of Care and Applied It Much of Resair Business Would Fizzle-Lubrication Abused.

It is epiorable but true that for each motor owner who really understands his car in its multiple details there are dozens ignorant of everything save the control. They know how to start it and stop it. But they know almost nothing about the proper re of the machine. Only the other for instance, a dealer told a man had bought a powerful car and the was totally ignorant of the fact that oil and grease played important

parts in its running. When he was towed in a few days later with a badly damaged engine he said he had thought that little things such as lubrication were arranged before the car left the factory, and that all he had to do was to keep the tank full of gasoline. Repair men state that if private drivers had more real knowledge of their cars, and applied it, more than three-fourths of the repair business would fall away.

Motorcar Abuses. Of motorcar abuses, improper lubrication is probably the most common. which is a little strange, considering that keeping a car olled and greased which runs at high speed and high temperature. It contains many rub- is also handy on private garages. A bing surfaces. In order to keep these is necessary to separate them by a film | and the unlocking cord.

If the lubricating system is in good condition and the oil of the right consistency, this protective film will be automatically provided. This applies to all the surfaces, such as pistons, cylinder walls, crank shufts, red pins, bearing, crankshaft bearings, push rods, push rod guides, and even to the gears. The teeth of the meshing gears, of course, are not spaced to rub against each other, but to have simply a rolling contact. However, it is impossible to attain this degree of perfection in practice, and a certain amount of rubbing does take place, due to the fact that the teeth cannot be scientifically correct.

Severe Test of Oil. The severest test of a lubricating oil is found in lubricating the pistons and cylinder walls, especially at the upper end of the stroke. At the moment the combustion the temperature is bove 3,000 degrees Fuhrenheit, and both pistons and cylinder walls are exceedingly hot; therefore it is necessary to use an oil which will stand this a temperature, neither vaporizing nor

If the oil is too thin or has a tendency to vaporize or burn, these high surfaces will be improperly lubricated, increased friction will result and finally the film of oil may disappear entirely, with the result that rubbing between the two surfaces will occur and the parts shortly will be ruined. There FIRST AID FOR CARBURETORS also is a possibility when the piston becomes heated that it will expand until it fills the cylinder bore and be-

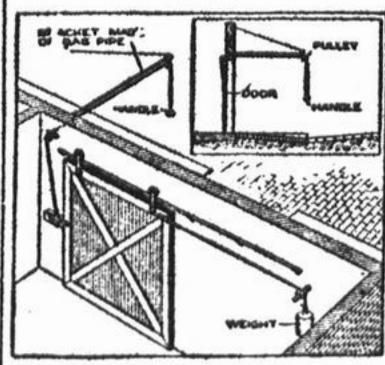
comes sented. If the oil is not clean, if it contains grit or dirt of any sort, it will rapidly in winter there is always some danger | retor.

of the water freezing and producing a stoppage of the lubricating system. As many men neglect to fill the oil reservoir often enough, it is a good plan to make a rule of doing it every day, so that there will be very little chance of the car running for several days without adding oil.

SELF-OPENING GARAGE DOOR

Driver of Car Pulls on Handle, Roleasing Catch and the Door Opens Automatically.

It is often annoying, especially in rainy or winter weather, to get out of un automobile at the garage in order to open the door. Customers at a public garage usually toot their horns until the door is opened, and in order to make this unnecessary I built a selfopening arrangement for the garage door, writes R. S. Matzen of Fort Collins, Colo., in Popular Mechanics Magazine. The driver pulls the handle sus-



Door Opens Itself.

tomatically opened by the counterweight. The garage attendant can easit requires. The motor is a mechanism lily close the door, and adjust the catch for the next patron. This device section of gas pipe, braced with strong surfaces from burning each other, it wire, was used to support the pulley

AUTOMOBILE AID TO FARMER

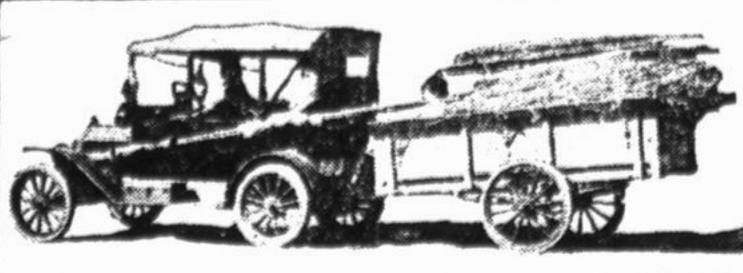
Distance He Is Compelled to Travel Makes Some Kind of Vehicle an Economic Necessity.

It is natural, when one studies the situation, that the farmers of the country should now be buying half the auomobiles that are on the market Aside from the fact that the farmer has had a year of exceptional prosperity and that the distances he travels make | Joyed by many of the older settlements some vehicle an economic necessity, he is in a better position to keep an auto at a minimum expense than is the city strong and vigorous, easily worked, man. In the first place, he is likely to be something of a machinist and will of crops. do a good deal of his own repair work, being forced by his distance from town to rely on his own resources. Then he is likely to have a barn or a shed already built, and will be put to noexpense for the building or rent of a garage. Almost every times he goes anywhere he saves time that is an essential in his business. If he is wise, possession of the auto cuables him to reduce the number of his horses sufficiently to pay for the gasoline he consumes. The city man has no such offsets, and unless he uses the auto in his business he must figure on a clear added expense,-Portland Oregonian.

Useful Precaution Is Provided in Fil ter Designed to Permit Use of Only Clean Fuel.

A useful precaution in these days wear away the metal parts, the grit of low-grade gusoline is provided in acting as an abrasive. Oil is liable to clean fuel to reach the curburetor. contain not only grit and free curbon, Casoline enters a lower chamber, but also a certain amount of gaso, where all sediment is supposed to be | United States controller of foods, and tween the rubbing surfaces, and wear ling element of layers of gauze and increases. Water may form an emul- special material to an upper chamber, sion and produce the same effect, while from which it flows into the curbu-

WORKING AUTOMOBILES FOR THE FARMER



FARMER COMBINING BUSINESS AND PLEASURE.

LOOK FOR ANY LOST MOTION rapidly it must be corrected imme-

(By JOHN C. HOLMES, in Power Farm- | used them as a truck, making it a The time has come when the motor-It looks as though the pleasure car is a only a short time until the cushions are

borrow money to pay for it. used them as pleasure cars and spent have been more profitable to have their time riding around in them, when bought a motortruck in place of a they should have been at work in the pleasure car? Possibly you can affield. In many cases horses and cat- ford both a pleasure car and a motortle and the raising of poultry have been | truck. Many of the farmers, such as neglected by hurrying to get the chores | dairymen, fruit and vegetable growers, done and not doing them as they and stock farmers have found the should be done, just for the sake of a motortruck a profitable investment. It pleasure ride.

end of the year and wondered where they can receive more for it than in the money had gone, but since they smaller towns and in much less time have owned a car, they have made two than with horses. and three times as many trips to town as they did with the horse, and, nut- the motortruck will succeed the horse urally they have spent more money.

If Looseness Develops in Steering

Wheel It Should Be Corrected

to Avoid Breakage.

Watch the steering wheel for lost

does not move the front wheels. One

inch or even a little more is not ob-

jectionable. But if any more devel-

ops it should be removed by adjusting

car is a necessity instead of a luxury, sheep, milk, ground feed, potatoes, etc., and the majority of farmers have them. Its town on the rear seat. And it is necessity, even to the man who has to torn and covered with dirt, so that it is not a desirable place to ride. In Some have bought pleasure cars and such cases, don't you think it would enables them to carry their produce Many have felt the effects at the greater distances to large cities where

It will only be a short time until and wagon, just as the pleasure car Some have bought pleasure cars and has succeeded the horse and carriage

New Cap for Automobilists. A new cap for automonilists includes motion; i. e., any movement which the goggles in a piece of material from

diately, as it shows that some part of

it is coming loose and will soon drop off,

rendering the car unmanageable.

which it is made.

Use Starter Button Right. Don't stamp on the starter button, the steering gear. If a looseness de but press it down deliberately and relops suddenly and tends to increase | tirmly.

Western Canada 1917 Crops | Good Shape.

While it is a little early to predict what the Western Canada grain crop will produce, there is every indication at the present writing that the 1917 crop will give an excellent return. Reports received from all portions of Manitoba, Saskatchewan and Alberta speak of good growing weather, fairly advanced stage of all grains with prospects as good as in the past two years. Should conditions continue as at present, it is safe to con clude that Western Canadian farmers, already free of debt, as a resuit of the splendid crops and prevailing high prices, expect from this season's returns to be in a position that will place them away beyond any fear

of the future. The acreage of Western Canada will be about the same as last year. Seeding was somewhat later than hist year, but germination was quicker. The only possible drawback now would seem to be a scarcity of harvest hand:\ but it is felt by the authorities that the situation will be pretty well cared for by that time.

Land values are increasing, but there is room for a much greater increase than in the past, owing to the returns that farmed land will give when compared with its cost. In some districts and that could have been bought five years ago for \$15 an acre is changing hands at \$60 un acre, the seller satisfled that he is giving the purchaser good value for his money. And why not, when it is known that in a great many cases during the past two years crops have been grown on this land that have produced a profit of forty and fifty dollars per acre, over and above cost of production. These cases, while not general, were not excep-

In addition to the lands that are offered for sale by railway companies, land companies and private individuals, the homesteading areas offer great inducements for those who are willing to do a little ploneering for a year or two. By that time settlements | Toung would come into existence, and this means a condition similar to that enof today-schools, churches, railways, The land is of high-class quality, and capable of producing the very best

The demand for all grains for some years will be great, and it will require all the resources of man, beast and soil to meet it. That the prices will be good goes without saying, but at the present time there is something more appealing than the lucrative prices that prevail. That is, the desire to assist in winning the world war. The man at the plow is doing his "bit," and the spirit of patriotism that prevails will lead him into a broader sphere of action. No matter where he may be be will look about him that he may find land to further develop the country's resources. It is possible that his own state nmy furnish the land, In which case he will be quick to take advantage of the offer. If land in his own state is not available. Canada (now our ally) will be glad to furnish It in unlimited quantity, as she is vitally interested in largely increasing the supply of foodstuff which is now as urgently needed and is as valuable as ammunition to the allied countries.

The appeal made by Mr. Hoover tion of the waste in food, and bespeaks whole-hearted public co-operation. Spenking of Great Britain, France, Italy, Relgium and their European allies, they say:

"For nearly three years their man power has been engaged in the direct work of war, and in some cases large areas of their most productive lands have been overrup by the enemy. Their food shortage and the food to supply the armies of Canada and the United States must be wholly provided from this side of the Atlantic. The supply must also be sufficient to cover losses st sea. Australia, New Zealand, the Argentine Republic and other countries are not now available to relieve the situation because of their remoteness and the shortage of tonnage.

"The crop of storenble fonds grown in Canada and the United States suitable for shipment overseas threatens to be entirely inadequate to meet the demand unless the whole people determine by every means in their power to make up the shortage. Every individual is under a direct obligation to assist in rationing the allied forces. There must be national self-denial and national co-operation to provide the necessary supplies."-Advertisement.

A Philadelphia Idea. Music and cleaning the partor have never been very closely associated, When the housewife wants to play the piano, he generally waits until she has cleaned the parlor, taken a bath and dressed herself in party clothes. Now a Philadelphian has patented a dust-filtering attachment which can be attached to the player-piano, and the ordinary housewife can now seat herself at the player-plane, obtain music via the keys, work the pedals for all she is worth and, with her child to run the vacuum cleaner about the floor, she can have it clean in a liffy. The bellows of the player are attached to the vacuum cleaner by means of a special pipe, and in this manner the needed vacuum is created for cleaning ourposes.

Short Memory. Dentist-You say they sent you up to have a tooth pulled? Bobby-Yes, sir. I-er-I don't for

zet which one it was. Philadelphia's St. Paul's Episcopal church will build a new home to cos \$500,000.

The boar need not be a drain the time and finances of the hog raiser after the close of the spring breeding season. He needs little attention, and if given shelter, shade, and a fresh, clean water supply, he will largely care for himself. The chief consideration crops the boar can be maintained over is to maintain him in good. thrifty, breeding condition by giving of grain, while if they were not used him an opportunity to exercise and by several pounds of grain per day would feeding him largely on pasture and be required. On pasture feed only forage crops.

A mature boar, if heavily grain-fed, has a great tendency to fatten. boar should be well fed, but not fat. as too high condition makes him inactive, a slow breeder, and a rather uncertain sire.

Pasture, therefore, is the best as well as the cheapest feed. nishes an abundance of nutrients, is palatable, and keeps the boar's system in good physical condition.

Bermuda, alfalfa, all make excellent farrowing.

postures and furnish grasing during a long season. If these are not available, small plots of several temporary pasture crops may be used; for example, rape, peas and oats, peanuts, velvet beans, sorghum, cowpens, and soy

beans. By using any of these forage the summer with a very small amount enough grain to keep the boar in breeding condition. Very often, on good pasture, none will be required. Guard against feeding too much grain and getting the boar too fat.

The boar should be confined to a paddock and not run with the rest of the herd. If he is with another boar, they are apt to fight, and if he is placed with the breeding herd, the sows will farrow at indefinite dates. It would be impossible under these con-Permanent pastures are among the ditions to keep records of the time of best, and certainly require the least service, and no provision could be attention. The clovers, blue grass, made to care for the sow previous to

not turn the hose on his body or legs.

Wash his shoulders every night for a

"Allow him to stop in the shade for

a few minutes whenever possible for a

brief rest and a chance to breathe

"Watch the work horse carefully.

Drooping ears, unstendiness of gait,

short, quick breathing, and a sudden

ceasing to sweat are danger signals

demanding prompt attention. They

menn that the horse is getting too hot

and that he must have shade, cooler

"If the horse suffers a heat stroke,

protect him from the sun, remove the

harness, apply cold to the head-

either water or ice-wash out his

mouth and nostrils, and sponge his en-

"Groom the work horse thoroughly.

"Remember that the horse produces

This will save feed and will increase

ing a load at a moderate gait, hence

greater and more efficient power and

DISEASE OF LITTLE

PIGS IS DANGEROUS

"Sore Mouth" Has Caused Much

Avoidable Loss This Season-

Treatment Must Be Quick.

That "sore mouth" disease of little

pigs has caused much avoidable loss on

stock farms this senson is reported by

Dr. F. B. Hadley, veterinarian of the

cause of the urgent demand for pork

and pork products, it is imperative

that attention be called to this dis-

ease," says Doctor Hadley, "Hidden

"Pain and swelling in the gums

disease. Later, ulcers with dark red

borders and cheese-like centers de-

sons from the sores will occur in a few

days, unless treatment is given speed-

tooth cutting or other injury enable

"When the disease is suspected, ex-

germs to enter and start the trouble.

amine the mouth of every pig. Those

potassium permanganate, made by dis-

solving one ounce of the crystals in

ter. Then wash out the mouth with

should be treated twice daily, and all

To prevent the spread of sore mouth,

Doctor Hadley advises that the heads

Pens must be cleaned up and disin-

treated separately, as follows:

"Eliminate lice, worms, and files, for cases at least once each day until heal-

ing is complete."

showing sores in the mouth should be

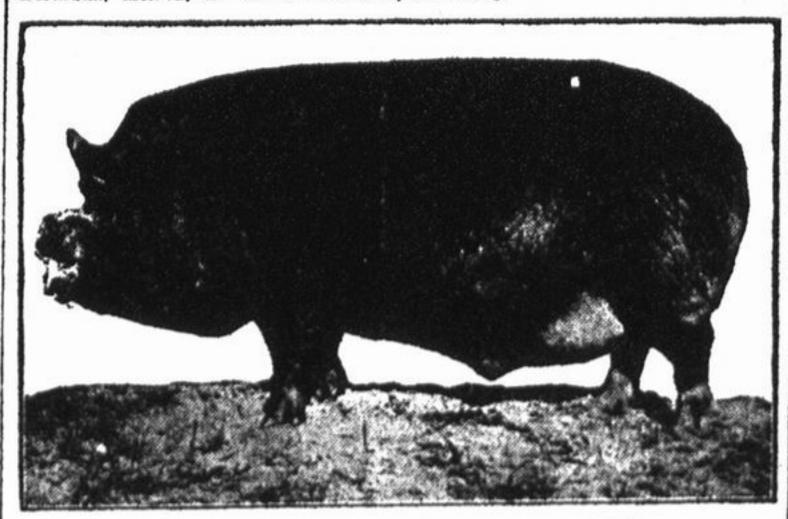
"Swab the vicers with a solution of

Wisconsin experiment station.

tire body with cold water.

few weeks with cold salt water.

freely and deeply.



LONGFELLOW'S DOUBLE RIVAL-A PUREBRED.

TO TREAT EWES AND CARE FOR LAMBS

Animals Intended Breeding Stock Should Be Weaned Before Five Months.

(From the United States Department of

Agriculture.) Lambs kept for breeding stock should be weaped when from four to five months of age. The lambs intended for market, on the other hand, should attain marketable weights before they are five months of age and should be weaped at the time they

Lumbs at weaping time should be kept for four or five days at least on the old pasture, as they do not fret as much as in a strange place. The ewes should be removed to another his health, vigor and power, pasture as far away as possible from the lumbs. If the feed on this posture | the greatest amount of net power from be a little scant, so much the better, the feed and care provided when drivfor this will help check the milk flow. The ewes and lambs should not be turned in together again, for a large energy can be secured by increasing smount of milk from a ewe that has the load rather than the speed of the not been suckled for two or three days work horse." is liable to cause digestive disturbances in the lamb.

At weaning time the ability of a ewe to produce a good lamb is often ruiped because the necessary care is not taken to see that she is dried off properly. A little care at this time will be well repaid. Two or three days after the separation the ewes should be milked out. All of the milk need not be drawn from the udder, but enough should be taken to leave the udder soft and pliable. Mark with colored chalk ewes needing no further attention. In about three days the ewes should be milked out again and the drys marked. Further attention should be given four or five days later to those not dry. No effort should be spared to maintain every breeding animal in a sound and useful condition.

ATTENTION TO HORSES DURING HOT WEATHER

Efficiency of Average Farm Animal Can Be Increased by Observing Simple Rules.

That the efficiency of the average farm horse can be increased 25 per cent by the observance of simple precautions, is the opinion of Dr. C. W. Hy. Wounds to the gums caused by McCampbell, associate professor of animai husbandry, Kansas State Agricul-

tural college. "Water the horse frequently during hot weather," advises Doctor McCamp-"He needs large quantities of water and frequent watering will overcome the dangers that result from

watering freely at long intervals. "Feed regularly a ration uniform two quarts of freshly boiled warm waboth as to kind and as to amount This lessens the danger from colic and this disinfectant fluid. Bad cases other digestive disturbances.

they may decrease the efficiency of the work horse 60 per cent and increase the feed bill 25 per cent. "Clean the collar every time it is of the pigs be dipped in the same solu-

put on the horse, and keep its bearing | tion and held there for a few minutes. surface hard and smooth. "Sponge off the work horse when he | fected with some reliable commercial comes in from work, especially where disinfectant, prepared and applied acthe collar and other parts of the har- cording to regular directions of the

Soll Rich in Nitrogen

Increase Farm Stock.

Bees Visit Many Blossoms.

Bees visit 3,000,000 blossoms to gath-

and idle lands of the farm,

er a pound of honey.

trogen.

ness have left marks. Sponge out his manufacturer.

Unhappy Condition of Hen. If the wild growth on your farm is Lice by day and mites by night fur profese and your homatoes and meion nish the unhappy condition of poultry vines run to leaf, your soil is rich in ni- kept among insanitary surroundings

High Content of Humus. Secure a high content of humus in Increase the farm stock to the ex- the soil by the use of legumes, barntent of utilizing all the coarse food gard manure, and farm refuse.

> Immense Poultry Loss. It is estimated that nearly \$9,000,000 worth of poultry is lost each y through disease alone.

cow and a little calf switched the man | sea his | in the eye with its tall. The took out his knife and cut off the last, and he needs calf's tall. Now, children, what verse membered?"

"Blessed are the merciful," but Philip had another answer:

"What God hath joined together, le no man put asunder."--- Exchange.

Not 80 Smart.

Mr. Flatbush-It's the story. Mrs. Flatbush-What's wrong now? Dominica, on a reservation set "I painted the front gate and hung for them called Salybia. sign on it. 'Fresh Paint.' "

"Well?" "The first man who came along put his hand on it to see if the paint was mobile." really fresh."

"Don't be so smart." "Why?"

"That wasn't a man that put his hand on the paint to see if it was fresh; that was me."

"What's that?" "Whenever you approach a railros crossing or a street car track and train or car is coming if you have to wonder whether or not it is sate try to cross, decide that it isn't."

quickly began to die out m

hand of the conqueror, who

they made war. Today it is

blooded Caribs alive. Practic

of them live on the British laten

Take No Changes

Don't Poison Baby.

ORTY YEARS AGO almost every mother thought her child must be PAREGORIO or laudanum to make it sleep. These drugs will produce sleep, and a FEW DROPS TOO MANY will produce the SLEE WHICH THERE IS NO WAKING. Many are the children w num and morphine, each of which is a narcotic product of opium. Dru are prohibited from selling either of the narcotics named to children at a to anybody without labelling them "poison." The definition of "narco in: "A medicine which relieves pain and produces sleep, but which in ous doses produces stupor, coma, convulsions and death." The taste and amell of medicines containing opium are disguised, and sold under the names of "Drops," "Cordials," "Soothing Syrups," etc. You should not permit any medicine to be given to your children without you or your physician know of what it is composed. CASTORIA DORS NOT CONTAIN NARCOTION, if it bears the signature

of Chas. H. Fletcher. Genuine Casteria always bears the signature of June 12 That

To Be Brief-

"What on earth did that fellow mean when he said that he was a peregrinating pedestrian, castigating his itinouth, nose and eyes. Soak his feet erary from the classic Athens of Amerthoroughly with cold water, but do lea?

"He meant he was a tramp, beating his way from Boston,"-Indianapolis

Naturally. "What do you find most productive

of hard cash?" "Soft things," The man who loves a woman a

much as she wants to be loved has no

time for outside flirtations.



W. N. U., CHICAGO, NO. SI-1912.

Canadian Farmers Profit From Wheat



The war's devastation of European crops has caused an unusual demand for grain from the American Continent. The people of the world mus be fed and wheat near \$2 a bushe ders great profits to the farmer Canada's invitation is therefor especially attractive. She want prosperous homes for themselves I

C. J. Brupphton, Room, 412, 112 W. Ademy

How Women Fish,

It doesn't serve to mellow a man's disposition to take a woman or two into the hout when he goes bass fish- | to it." "When every farmer is trying hard ing. For women always want to fish, to save every pig in every litter be- yet never could they or would they stick those horrid, nasty, wriggling angleworms on the book. So, between baiting their hooks and removing the perch and pumpkin seeds and strainin the soft tissues of the mouth, this, ing your spine to keep the boat from trouble is often undiscovered until too turning turtle and the lines from getting snarled up, you have a most enjoyable outing, do you not? Yes, you make it difficult for little pigs affected do not! I'll run the risk of answerwith sore mouth disease to nurse or ing that question for you, "Zim" writes eat. This is the first symptom of the in Cartoons Magazine. And then, when you finally book a five-pound bass weighing at least three pounds and eight ounces by his own standard "Death caused by absorption of poi- scales, and play him for twenty minutes against their earnest entreaties not to bring that big, ugly thing into the boat or else they'd jump out !you calmly ease up on the line and give him slack, also his freedom, do you not? Yes, you do not! And when the day is spent, they tell you what a gorgeous time they have had, and make you promise to fetch them again, and you promise, of course, do you

His Defenders.

not? You do like-heaven!

Recruiting Officer-"How about joining the colors? Have you anyone dependent on you?" Motorist-"Have I? There are two garage owners, six mechanics, four tire dealers, and every gasoline agent within a radius of one hundred and twenty-five miles."-

Our respect for old age depends a great deal on whether it is to be applied to men and women or boarding house poultry.

POST TOASTIES

are the newest and best in corn flakes



For Kidneys, Liver and Bladder

"Sweets to the sweet, ch?" said the

"They're often just as funny at the

candy counter as they are anywhere

girl at the candy counter.

Splendid Medicine

cially has it been very useful in

"What do you mean?"

firmly believe that it is a very walls medicine and recommendable for what DR. J. A. COPPEDGE. Innreed, Teast.

Singhamton, N. Y., for a sample will also receive a booklet of valuable mention this paper. Regular fifty on and one-dollar size bettles for sale at a drug stores,-Adv. Mental Exercise.

"Do you enjoy modern poetry?" "Very much. It's such good fan tree ing to figure out what it means? Crude Job.

"I'm a self-made man," "You knocked off work too soon," Boston Transcript.

A Guarantee. "You say you can offer me a fe tune, but is it all clean money? "It ought to be; I made it in

Don't waste anything. Not ex ergy in climbing hills before you to them, Milwaukee News

