BLOCKAGE TEST OF RED CROSS PILOTS

Petrol in War Zone Is Doled Out by Quart and Strict Accounting Required.

ESSENCE IS ABOVE PRICE

Gas Obtained From French Stations Has to Be Returned Later for Liter, but U. S. Army Is on Cash Basis.

They don't say "How many miles to the gallon do you get with your bus?" No, indeed. Not when they're Red Cross ambulance drivers.

Instead it is, "What's your blockage?"

Which is a polite inquiry as to how many blocks to the quart you may be obtaining.

Whether it be on American Red Cross ambulances or on Army wheeled craft, gas consumption in France is measured generally by blocks to the liter. Gas or "essence" is a precious article in the war zone, and not at all easy to get; in fact, almost impossible to buy for cash.

Team Work Solves Problem.

Fortunately, the gas stations maintained by the French and American armies co-operate with the American Red Cross motor service and permit ambulances and trucks to obtain limited quantities of gas on "carnet" or triplicate orders supplied to Red Cross drivers.

Any gas obtained from a French station, however, is merely borrowed and the Red Cross must return it liter for liter from stocks reaching it at the various ports. The official orders filled from American Army stores are redeemed in cash. The French, however, will not part with their gasoline for money.

With gasoline, as well as motor equipment, so precious, the Red Cross has instituted unusual gas-saving devices governing its entire fleet of 634 ambulances, trucks and other gas vehicles. Carburetor adjustments receive unremitting attention. No car may continue with leaking valves or other defect, which will lower its "blockage" per quart, or will waste oil.

No chauffeur who is not expert in getting maximum "blockage" remains long at the wheel. Every chance of joy riding is eliminated by a system which might well be adopted by owners of passenger cars and trucks in this country.

Chance to "Hedge" Small.

No car leaves the garage even for a trip of four blocks until the odometer reading is taken carefully and gas in the tank or in reserve cans measured accurately. The driver starts out with a trip card registering all these facts, and new readings are taken on his return to the garage or on his arrival at the next Red Cross transportation station.

If his odometer shows that he has deviated from the shortest path between the garage and his objective, or if his time indicates that he has been delayed, he is called on for an explanation. A doubtful excuse brings a sharp warning; a second offense puts him on the "wash rack," washing dirty cars for several days.

As all Red Cross drivers are militarized, he has to take his medicine. A third offense may send him to the Provost Marshal of the American Army in Paris as a military offender.

Various punishments are meted out, but the most feared of all, they say, is an order that a man be separated from the Red Cross and sent back to America in disgrace.

PARADISE VALLEY OPENED.

Paradise Valley, the heart of one of the Northwest's greatest scenic assets, Rainier National Park, was opened to motorists and tourists last week. The trip to Paradise Valley is a favorite one with Portland motorists. In the warm July and August days there will be many parties to make the trip, which can be made easily in three days—one day to go, one day in the park and one day to return.

AUTO CLUB MEMBERS TO CAMP

Tenting Facilities Arranged for Them at Clubhouse.

Members of the Oregon State Motor Association who desire to take advantage of the opportunity can bring tents and camping equipment out to the grounds of the association at the clubhouse on the Sandy River and camp there with their families as long as they desire. Arrangements have been made whereby they may obtain their meals at the clubhouse. George M. Chambers, assistant secretary of the association, is in charge of the camping arrangements. The auto clubhouse is in a beautiful location on the Sandy River, and is finely situated for camping.

BATTERY FIRM GROWS

VAN MATRE-HOWARD COMPANY OBTAINS LARGER QUARTERS.

Business Develops So Greatly That Larger Space Leased for Term of Years Is Necessary.

Four times the floor space in his present quarters at 32 North Broadway street, will be be available for the Van Matre-Howard Battery Company in new quarters they are to occupy this week at 48 North Broadway, one block north of the old location.

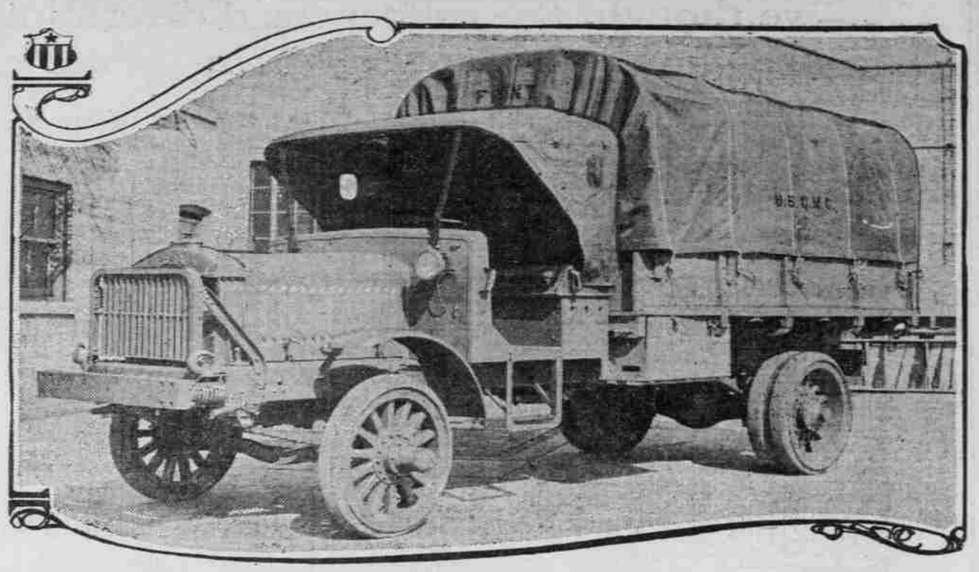
The move is made necessary by the growth of the business. It has developed so much that larger quarters are imperative. The new quarters have been leased for a term of years.

J. W. Van Matre and L. A. Howard are the members of the Van Matre-Howard Battery Company. Mr. Howard, who became associated with Mr. Van Matre last August, was formerly with the Frank C. Riggs Company, Packard distributors here before Mr. Riggs became western division manager for the Willys-Overland Company.

Chisel Is Best Rivet Cutter.

The proper tool to use in cutting out rivets that hold together thin metal parts is a sharp chisel. The head of the rivet should be backed up with a weight of some kind so as to prevent tearing of the adjacent metal. An oxy-acetylene torch is the quickest method of cutting off rivet heads.

HERE'S A VIEW OF THE NEW UNITED STATES ARMY TRUCK, COMMONLY KNOWN AS THE LIBERTY TRUCK.



THIS IS ONE OF THE BIG CLASS B TRUCKS OF FIVE-TON CAPACITY AND OVER, WHICH ARE BEING SHIPPED TO FRANCE AS FAST AS THEY CAN BE BUILT.

Many of the big motor truck factories in the East are assembling for the Government large numbers of Liberty trucks. This photograph is published through the courtesy of Vernon A. Smith, of the Vernon A. Smith Motor Truck Company, of Seattle, Coast distributors for the Diamond T truck. Mr. Smith obtained the picture while on a visit recently to the Diamond T factory at Chicago, where hundreds of Liberty trucks are being built. He passed through Portland on his way back to Seattle.

AUTO BED IS UNIQUE

Seattle Man Invents Device for Motor Campers.

CONSTRUCTION IS SIMPLE

Miss Emily Hyde Made Dealer for Entire State of Oregon, Being First Woman Accessory Distributor in Portland.

Women are now employed in many Portland garages, there are several women motorcar salesmen, and as everybody knows, more and more women are driving automobiles. But so far as known to deponent, there is only one woman automobile accessory distributor in the whole state of Oregon; perhaps even in the Pacific Northwest.

She is Miss Emily Hyde, formerly of Seattle, who came to Portland about a month ago with the Oregon agency for the Fischer auto bed. She has opened headquarters at 66 Sixth street, where the plain "E. Hyde" painted on the window has led several interested prospects to inquire for "Mr." Hyde.

The Fischer auto bed is the invention of Casper Fischer, of Seattle, who also happens to be manager of the Hippodrome Theater there. Mr. Fischer, who is an ardent motorist and camper, used to go to all the trouble of packing along a cot and tent when he went on tours through the country.

No More Tent Pegs.

He began figuring how to escape the bother of driving tent pegs and all that, and the result was the Fischer auto bed. It is really a remarkable contrivance, this bed. Mr. Fischer at first had not the slightest idea of marketing his invention. He had a couple of models made of it which he used only for himself.

Then a friend or two noted his achievement, so auto beds had to be made for them. But every bed given to a friend brought inquirers to Mr. Fischer asking that they, too, be made one of his comfortable devices for sleeping right in an automobile.

The upshot of it all was that Mr. Fischer tumbled to the fact that he had made something unusual, for which there was a wide demand. His next step was to perfect a few little details about the bed, after which he began its manufacture on a marketable scale.

Miss Hyde, who used to be a high school teacher in Spokane, happened to see the Fischer auto bed in Seattle a couple of months ago. She was so struck by the practicability of the device that she made arrangements to take over the whole Oregon territory.

Fits Over Seat Backs.

The Fischer auto bed is simplicity itself. Folded up, it occupies a space only 8 inches wide by 6 inches deep and 30 inches long, and actually fit for carrying into the compartment under the rear seat cushion.

In use, it is fastened to the tops of the seat backs on the car, the cushions of the seats being used for the mattress. Yet so simple is the Fischer auto bed in construction that there is only one screw to adjust.

The bed is a steel frame, without bolts, nuts, ropes, buttons or springs, with canvas covering, and it fits any car, with the top either up or down. If it rains, put on the side curtains of the car, and the tourist sleeps far more comfortably than in a Pullman berth.

The Fischer auto bed comes in three sizes—one for Ford and Chevrolet cars, one for cars of medium size, and one for seven-passenger cars. There is also a special model of the bed for cars with divided front seats.

The bed is so well made that the seven-passenger car size is adapted to ambulance work. One of the purchasers of a bed of this size from Miss Hyde is Dr. Earl Smith, Multnomah County Coroner. He intends to use it not only for camping, but as an emergency ambulance.

ENTERPRISING YOUNG WOMAN DISTRIBUTOR HERE FOR FISCHER AUTO BED.

Miss E. Hyde

OFFICIAL ROAD INFORMATION

United States Forest Service Bulletin Gives Data, Compiled by Field Men, on Condition of Oregon and Washington Roads.

THIS road bulletin contains general information concerning road conditions in or near the National forests of Oregon and Washington, based on data furnished by the field men of the Forest Service.

A dangerous forest fire season is here. All forest travelers—autoists, campers, fishermen, hunters and others—are warned to be careful with fire in the open. The present extremely dry condition of the woods, due to drought and drying winds makes them especially susceptible to fire and unusual care is necessary to prevent destructive conflagrations. The co-operation of everyone using the forests is needed to keep them green and attractive.

By building small camp fires in safe places and completely extinguishing them before leaving, one of the chief causes of forest fires may be removed. Smokers should be cautious with burning tobacco and matches. No patriotic tourist will purposely start a fire and endanger the timber and forage of the forests.

Aside from the commercial value of the woods, which can be figured in dollars and cents, there is their value from a recreational and aesthetic standpoint which can only be estimated. Help keep the forests valuable by preventing forest fires.

Western Oregon.

Willamette Valley - Cascade Mountain Wagon Road—Open and in fair condition between Foster and the summit of the Cascade Mountains. The bridges along this route are dangerous and particular caution should be used in crossing them.

Hebo-Neskowin—Open and in permanent Summer condition entire route.

Tillamook-Willamina—Open and in fair condition entire route.

Dead Indian—Open between Pelican Bay and Ashland. Passable for autos.

Klamath Falls-Crater Lake—Open between Klamath Falls and all Crater Lake points. In poor condition between Klamath Falls and Fort Klamath. All roads to Crater Lake are now open.

Estacada-Cazadero—Open and in fair condition. Road is narrow and rough in places.

Crater Lake Road—Open and in fair condition between Medford and Fort Klamath.

Willamette Road—Open between Eugene and a point several miles beyonnd Oak Ridge. Closed to all vehicles beyond this point.

Columbia River Highway—Open and in good condition, Portland to Cascade Locks. Closed for conatruction between Cascade Locks and Hood River. Cars may be shipped between Cascade Locks and Hood River by rail or boat on weekdays, and by boat on Sundays. Eagle Creek public camp and picnic grounds is 43 miles east of Portland on this road, which is paved the entire distance. Here the Forest Service maintains a free picnic and camp ground for recreation use. Tables, benches, fireplaces, running water and other conveniences are available at this campground.

McKenzie Pass Road—Open and in good condition, Eugene to west boundary of the Cascade National Forest. Poor condition from west boundary of the forest to Sisters.

Drain-Scottsburg—Open and in fair condition entire length.

Klamath Falls-Bend (via Fort Klamath)—Open and in fair condition.

Crescent City-Bandon—Coast road. Open and in fair condition entire route; some rough places.

Pacific Highway—Open and in fair condition, Roseburg to Grants Pass and Medford. In good condition, Grants Pass to Wolf Creek.

Grants Pass-Crescent City—Open entire length and in good condition except for a few rough places.

Barlow-Oak Grove Road—Open and in good condition, Portland to Rhododendron. Poor condition, Rhododendron to forks of road near Clear Lake. Open but rough, Clear Lake to Cedar Burn. Good condition, Cedar Burn to Wapinitia.

Eastern Oregon.

Sparta-East Eagle Park—Open and in good condition, entire route.

Baker-Cornucopia—Open and in good condition.

Baker-Prairie City—Open and passable for all vehicles, but in poor condition.

Hardman-Spray—Open and passable for machines entire route.

Prineville - Mitchell — Passable between Ochoco Station and Wheeler-Crook county line Open and in excellent condition, county line to Beaver Ranger station.

Western Washington.

Cascade Scenic Highway—Open from Coast towns to Sultan. Closed between Sultan and Tye for construction work. Detours not possible. Bridges are not finished across Miller River and the Skykomish River.

Sunset Highway—Open and in good condition from Seattle to Cle Elum. Sixty miles out of Seattle on this highway is the Denny Creek campgrounds, where the Forest Service maintains a free camp and picnic grounds equipped for the use of the public.

Arlington-Darrington Road—Road open and in good condition, Arlington to Fortson. Fair condition, Fortson to Darrington.

Olympic Highway—Open and in good condition between Olympia and Quinault Lake. Open and in fair condition between Olympia and Discovery Bay. Good condition, Discovery Bay to Piedmont. Good condition, Fairholm to Mora and Forks.

Eastern Washington.

State Road No. 4.—Open and in fair condition between Republic and Tonasket.

State Road No. 10.—Open and in fair condition between Entiat and Pateros. The road is getting rough in places.

Blewett Pass Highway—Open and in good condition, Cl Elum to Wenatchee. This road is now in the best condition it has ever been. Several bridges and the heaviest grades on the old road on the Chelan side of the road have been eliminated and a large number of new turnouts built. No driver should have any difficulty in negotiating this road.

MECHANICS ARE SCARCE

SERVICE MEN BEING TAKEN BY ARMY AND NAVY

Situation Such That Car Owner Should Learn to Make Minor Adjustments for Himself.

"The tremendous demands for trained mechanics for truck and airplane work, placed on the automobile industry by the Government, has thinned out the ranks of service men to a point where most dealers have to get along with considerably reduced forces," says John Tainsh, general sales manager of the Mitchell Motors Company, Inc., of Racine, Wis. "This means that owners of cars are going to have to do for themselves many of the small odd jobs of cleaning and adjusting which it has been their habit to have done in the garage.

"There is really no reason why this practice of running to the garage for every little attention a car may need should ever have been established. It is simply one of the bad habits left over from the early days of the business when people did not know much about automobiles. Progress has been made along other lines; other bad habits have been overcome and it perhaps is a good thing that present conditions are going to force the elimination of this one.

"As a first step in learning to care for his car, every owner should hold a few evening sessions with the instruction book. It is a good plan to start by reading the book through from cover to cover. This will give a general idea of the relation of the various instructions and explanations to each other and will promote a clearer understanding of what is to b done when the owner attempts actually to carry out some of the instructions.

"The next step should be to go over the book and the car chapter by chapter, locating on the car all the parts and adjustments referred to. When this is done and a few of the adjustments carried out as a matter of practice, the owner should be able to do anything necessary to keep the car in good shape, outside of making important repairs.

"Foreseeing these conditions we have, at the Mitchell factory, been trying to make our cars as nearly foolproof as is possible. Every part of the car needing attention is accessible and all lubrication, adjustments, etc., have been made as simple as good, sturdy design will permit. For instance, it is possible in th Mitchell to remove all floor boards and even the seats themselves, so that any part of the driving mechanism may be reached without crawling under the car or being a contortionist.

"If a man really likes his car—and to the regular motorist his car has a distinct likeable personality—he will find following these suggestions far from unpleasant. Acquiring information, the power to command otherwise awkward situations and the saving of money—surely taking care of your car is its own rew..rd.'

GEORGE ADAMS JOINS NAVY

Maxwell Salesman Enlists in Naval Reserve Forces.

George V. Adams, Maxwell salesman for the C. L. Boss Automobile Company, couldn't stand it any longer. He had been feeling restless for several months and last week the call grew too strong to resist. So George enlisted in the Naval Reserve and will leave Portland soon for Bremerton, where he will train for 60 days for the position of commissary steward, for which he has passed the necessary requirements.

Mr. Adams was for several years on Great Lakes vessels. As a salesman of automobiles he has made a remarkable record.

AUTO SALESROOM FOR LEASE

Best location in city on Auto Row, suitable for passenger, auto truck, accessory or used car salesroom; good lease; rent reasonable.

GY, Oregonian

Studebaker

New Studebaker 19 Series Model Ready for Delivery

SINCE our announcement of the arrival of the New Nineteen Studebakers thousands of people have visited our Show Rooms, and but one opinion prevails—the finest and most complete line of cars ever produced in America. The stock models include

The Big 6 — The Light 6 — The Light 4

and all are thoroughly modern, handsome in design and as mechanically correct as the best engineers in the automobile world can produce. In design, finish and in specifications everything is practically new but the name.

A Limited Number for Immediate Delivery

This first shipment will fill our standing orders and give us a very few of each model for immediate delivery. If you want your new Studebaker this Summer do not delay. Other shipments are, of course, problematical, and it may be necessary for you to go on the waiting list. Ask for a demonstration tomorrow.

OREGON MOTOR CAR CO.
Distributors
Park and Davis Phone, Broadway 616

LIGHT TRUCK BIG HELP

BUSINESS HOUSES ENABLED TO CARRY SMALLER STOCKS.

Smith Form-A Truck Distributor Emphasizes Many Uses of Light Auto Truck.

Light fast motor trucks have eliminated the system and need of large concerns carrying huge stocks of goods. Retailers, especially those who handle perishable goods, are enabled to carry smaller stocks of goods and have a fresh supply on hand in a short time. Hundreds of firms engaged in these lines are using light trucks made from passenger cars with a truck attachment. These devices make an efficient truck at low cost and the upkeep is low.

"Trucks made with the Smith Form-A truck attachment have proved efficient and are in use in many parts of Oregon and this country doing all sorts of work and doing it well," says Charles L. Wright, of Ballou & Wright, distributors for the Smith Form-A truck.

"Before the advent of the motor truck the uncertainty and length of time it took to receive shipments necessitated concerns investing heavily in goods and supplies to have sufficient stock on hand for continuous production, as well as protection in case of railroad tie-ups.

"The motor truck has eliminated this dependency on uncertain transportation methods. It enables concerns going after materials at any time, thereby reducing the amount of available supplies and keeping the money in the bank for other purposes."

Protect Dry Cells.

Dry cells are considerably open to outside inimical influences, dampness, etc., and really need more protection than they usually get. An extremely valuable idea in this connection is to cut an old inner tube into sections, just to fit the dry cells, slipping the rubber covering over these latter as if it were a stocking. This protects them admirably from short-circuiting influences.

Remove carbon from cylinders twice a year.

TIRE Bargains

Special on Congress Tires

30x3 Non-skid	$11.85
30x3½ Non-skid	$15.75
32x3½ Non-skid	$17.95
31x4 Non-skid	$23.55
32x4 Non-Skid	$24.25
34x4 Non-skid	$25.80
35x4½ Non-skid	$35.95
36x4½ Non-skid	$36.75
37x5 Non-skid	$43.75

Special on VITALIC TIRES Guaranteed 3500 Miles

30x3 Plain Tread	$13.50
30x3 Non-skid Tread	$13.75
30x3½ Non-skid Trd	$17.75
31x4 Non-skid Tread	$26.50
33x4 Non-skid Tread	$28.50

We carry a variety of other makes. State size of tire wanted and style of rim and we will quote you on the different makes we have in your size.

We save you more than one-third on Tires and Tubes. Mail Orders Promptly Filled.

Portland Tire Co.
331 Burnside St., Portland

The Call of The North

Pack your troubles in a dress suitcase—fill the car tank with gas

—Then, off for the two-day run to

Vancouver BRITISH COLUMBIA

A trip that will be a revelation and an inspiration—will send you back to work refreshed—feeling like a new person.

This trip—made over the Pacific Highway—is by long odds the finest touring run offered residents of Portland and vicinity.

Find out what pleasures and opportunities this motor trip across the line—to the center of the wonderful natural beauties of British Columbia—offers

Full particulars, illustratetd booklet, road maps, etc., forwarded on request to

J. Reginald Davison,
City Publicity Commissioner.
Board of Trade Bldg. Vancouver, Canada.

30-Day Touring Permits Given Visiting Motorists at the Boundary Line.

DEPENDABLE Service, HIGH Efficiency and LOW Price has made a leader of the

REPUBLIC TRUCK

"Every 3rd Truck in Oregon is a Republic"—priced in Portland at $1270 to $4950.

ROBERTS Motor Car Company
Distributors
PARK AND EVERETT PORTLAND, OREGON