

TRANSCONTINENTAL ROADS IMPROVING

Those Contemplating Western Trips Have Assurances That Heavy Rains Are About Over

Automobile tourists who have planned their transcontinental tour to start any time between now and July 1 will be cheered by the information that the rains which have recently been so heavy west of the Mississippi and Missouri rivers have practically ceased—with weather reports indicating that a dry spell is to continue from now on.

These rains have put the roads in very bad condition, but the very many well organized road and route associations all through those sections have started vigorously at work re-dragging all the roads. This saturation by rain will mean that after dragging the roads will be in the very best of condition as it is this action, promptly taken after rain periods that gives the dragged road that excellent surface so generally commented upon by those who have had the experience of touring over them.

There have been many estimates as to the number of cars that would make transcontinental trips and only those who have been over optimistic might complain. Reports from various points on the routes leading through the southern section of the extreme West show that many cars have been through, and those who used judgment in their early estimates state they have no cause for disappointment in the number of automobile tourists.

The north and central routes are now coming into their share and will probably be the favored ones to carry the burden of traffic during the next three months. Practically all of these routes have had an immense amount of work taken on them during the spring and early summer in full anticipation of travel, and no cause for complaint will probably be entered against them.

Those planning to make the transcontinental trip by any of the routes are advised to write the touring bureau of the American Automobile Association at its national headquarters, the Riggs Building, Washington, D. C., or 437 Fifth avenue, New York city.

BANKERS ARE OPTIMISTIC
Lee Olwell, vice-president of the Chalmers Motor Company was in Kansas City during the recent convention of Missouri bankers. In commenting upon the attitude of the Missourians on financial matters he said, "I have never before heard so much enthusiastic prosperity talk among a crowd of bankers. Financial men are proverbially conservative. Their outlook augurs well for the approaching motor car season."

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BATTERY "Exide" SERVICE Is Your Starting Battery in Good Shape? The storage battery is the "heart" of the starting and lighting system on your car.

To Search Death Valley For New Ore Deposits

In an effort to verify the report of the findings of an immense body of ore in the heart of Death Valley, California, O. K. Parker, a well-known engineer of Los Angeles, with a party of assistants, has just left that city, to tour through Death Valley by motor car.

According to the statements of several prospectors, recently returned from Death Valley, large quantities of molybdenite, an ore very little known in metallurgy, have been discovered in that section. Molybdenite, when incorporated in steel to make the latter infinitely stronger and lighter than any metal heretofore discovered by metallurgists. With the present trend toward lightness in the construction of motor cars, the new ore would be of inestimable value to the automobile industry, and the Los Angeles engineers will investigate the region thoroughly before returning.

H. Arnold, of Los Angeles, has sold a Dodge Brothers touring car for the trip into the Valley, and it is expected that the car will be subjected to a terrific test in the desert regions. Entering Death Valley the motorists will encounter every extreme of weather and road conditions, ranging from the climb of six mountain ranges averaging over one mile high, to the bottom of the Valley, which is 300 feet below sea level.

F.A.M. NEWS and NOTES

Delegates to the Indiana F. A. M. State convention had an opportunity to witness the annual 500 miles automobile race at the Indianapolis speedway.

Thirty applications for membership were received at a recent Get-to-Gether Meet of the Springfield (Ill.) Motorcycle Club.

Business and pleasure are combined in the motorcycle trip being made by F. D. Shomo of Dallas, Texas. Shomo is visiting the dealers of the State wheel, and is accompanied by Mrs. Shomo in Boston, Mass.

A motorcycle squad for the prevention of accidents and crime has been formed in Boston, Mass.

The Maryland Motorcycle Club of Baltimore will on April 1. A. M. membership contest, having 21 new club membership applications. The award was five Old Sol motorcycle lamps.

D. L. Hoff of Waterloo, has been appointed F. A. M. commissioner for Iowa.

The 1915 Ohio F. A. M. State convention will be held at Lima, June 25, 26 and 27. A number of tours have been planned from different sections of the State.

C. R. Milburn of Kansas City is planning a motorcycle trip to Yellowstone National Park.

Three riders of New London, Mo., E. Boles, H. Brisot and P. Penn, are planning a motorcycle trip to the San Francisco Fair.

EIGHT MILITARY MOTOR CARS TOURING TO COAST

War Department Watching With Interest Experimental Run of Northwestern Academy

The whole world knows of the prodigious service that is being performed by motor cars in the European war, the officials of our own war department and military men everywhere have observed with great interest the part played by the automobile in military maneuvers in the United States during the last few years.

But never, in any country, has a number of military motor cars been called upon to travel so many miles continuously as will be traversed by the squadron of the Northwestern Military and Naval Academy, Lake Geneva, Wisconsin. The tour started from Chicago June 10, with San Francisco as its destination.

Some years ago Col. R. P. Davidson, head of Northwestern Academy, began building up the automobile corps of the institution, by the acquisition of a Cadillac car, which was fitted out with a rapid fire gun. The corps now has eight cars, all Cadillacs, five of which are eight cylinder chassis.

Regular army officers will be with the party to make extended reports of the results during and after the trip. Reports to Washington will cover the observations and conclusions reached with regard to the cars' performances under conditions approximating military necessity. There will be about 50 men in the party, 40 of them cadets at the academy.

The expedition is under command of Col. Davidson, who has designed a part of the equipment which the cars carry, and who recently supervised the building and equipment of wireless and military cars for the government of Guatemala. He was in 1897 a motorcycle rider, and has since ever mounted on an automobile and has devoted considerable time and study to the wireless telegraph as used in connection with motor cars.

The column includes an officers' reconnaissance car, equipped with special Ross military rifles, map tables and instructions for making road and contour maps, a distance measuring device for observations from behind walls or other defenses, altitude indicators, range and elevation finders, in fact, every instrument helpful in making a reconnaissance of a territory.

A wireless car has a telescopic mast mounted on the running board, and is

equipped with a special electric generator capable of producing a current of 110 volts. A second car carries, in addition to its wireless outfit, a Colt automatic and a powerful electric searchlight and heliograph shutter.

The field kitchen and the hospital are mounted on eight-cylinder chassis of 14-inch wheelbase. Cooking is operated by electricity; there is also a general kitchen equipment. Special operating tables, surgical instruments and X-ray apparatus make up the equipment of the hospital car.

A complete armor of bullet-proof steel, with openings for rifle fire, is provided for another car, which also mounts a Colt automatic rapid fire. This car carries a simple rope and windlass arrangement which would be found useless in actual warfare in extricating the car from a ditch or dragging it up a steep embankment.

Another car is designated as a quarter-master's car, carrying a Colt automatic type of gun, while there is one balloon destroyer armed with a Colt rapid fire.

The balloon destroyer is a hero of the Glidden tour of 1910, and by this time has had close to 80,000 miles of hard road travel and field work during different army maneuvers.

The corps will follow the route of the Lincoln Highway, from Chicago and the coast. A side run will be made to Rock Island, Ill., for a visit to the United States arsenal.

The column is routed through Des Moines, Omaha, Ord, Salt Lake City, Reno, Sacramento, San Francisco, San Diego, then to Los Angeles and San Francisco. Most of the machines will be placed on exhibition at the exposition.

Much interest is being shown by many of the cities and towns on the route, and escorts and all courtesies have been vouchsafed the military men. Camps will be made along the route and military discipline will be enforced.

CONVICTS TO BUILD CALIFORNIA ROADS

Southern Coast State Is Last of Western States to Employ Convicts in This Way

"If you will give us the convicts to build roads through the mountains, there are 7,500,000 acres of the Sierras that can be opened for settlement," said Charles E. Stern, highway commissioner in California.

The act just passed is modeled after Colorado legislation under which excellent results have been obtained. The Highway Department is authorized to make requisition upon the prison department for the number of convicts required and to organize and maintain the camps as well as supervise the road work.

The men are to be worked under the honor system, and the Prison Department is empowered to grant additional good time to the convicts employed in this work, conditioned upon their loyal, obedient and efficient co-operation with the state.

To bring about the earlier completion of the state highways which will relieve the state of a considerable bill that takes effect ninety days after the adjournment of the legislature.

Reporting the successful passage of the Act to the National Committee on Prisons and Prison Labor, Mr. Stern writes:

"We expect to establish road camps about August first and hope to use from 1000 to 1500 convicts on our mountain roads and a year hence will doubtless have very interesting facts to relate."

California is the last of the western states to employ her convicts in this way and it is hoped the new legislation is a step towards the organization of her whole prison system along the lines advocated by those who have the welfare of the convict at heart.

117 RIDERS IN RELAY

One hundred and seventeen riders will participate in the coming coast-to-coast motorcycle relay race which is to start from New York city about July 19. The cross-country course has been divided into 39 relays, each covering approximately 39 miles. Every possible precaution is being taken to prevent the loss of single instant in hurrying the President's message across the continent to San Francisco, in the shortest possible time.

Three riders are to be appointed for each relay—the first to carry the message, the second to continue with the dispatch in case of accident to the first, and the third to take up the relay should both of the others be put out of the running. Every participant is supposed to know thoroughly the portion of the course which he is to cover, so that he will be able to make the quickest time under any conditions.

The route for the dispatch will be the Central New York Route from New York City to Chicago, thence to Sterling, Ill., over the Lincoln Highway. From Sterling, the journey to Davenport, Des Moines and Omaha will be over the Rock River Route. At Omaha the riders will again follow the Lincoln Highway to St. Paul, where they will take up the Overland Trail to Reno. The remainder of the route from Reno to San Francisco will be over the Lincoln Highway, by way of Sacramento.

HAYNES NEW MODEL SHOWS NEW FEATURES

Larger Bodies, Adjustable Front Seats, Longer Wheelbase and New Refinements

The Haynes Automobile Company of Kokomo, Indiana, has just announced the new 1916 Haynes "Light Six" cars which consist of two models with three different styles. Model 34 is finished in a five-passenger touring car listing at \$1385, and a three-passenger roadster listing at \$1485. The wheelbase is 121 inches and the weight is 2950 pounds. The Model 35 is finished in a five-passenger touring car with a wheelbase of 127 inches with a weight of 3050 pounds.

"An indication of being unable to fill all of the 1915 season orders," states A. G. Seiberling, general manager of the company, "the new 1916 models have been developed and are now ready for distribution. The new cars contain many refinements that will be added comfort and luxury."

"During the six months ending April 1, not only was every 1915 Haynes eight six car sold but during that period The Haynes Automobile Company sold 33 per cent. of the cars produced in the State of Indiana, and Indiana is second only to Michigan in its production of cars."

"The new models, light, high speed motor is used in the new models. Self-lubricating springs are used in the chassis. Helical bevel drive gears are used in the individual axle shafts. Adjustable front seats are used in both the five and seven-passenger models. The front doors are retained by an entrance may be had directly to the front compartment. The two auxiliary seats used in the seven-passenger model are unique in that they disappear entirely into the floor when not in use."

"The three-passenger roadster contains three individual seats with form-fitting upholstery. The center seat is dropped back and an aisleway is left between the two forward seats. An unusual amount of carrying space is produced in the rear compartment for a three-passenger roadster prompted the building of a car of this type and judging from the number of orders already in the hands of the factory, it will prove to be a very popular model."

"The 1916 Haynes Light Six cars are big and roomy. The bodies are larger than they were last year and there are more refinements. The upholstery is deeper and softer. The equipment consists of a Waltham clock, a Boyce Moto-Meter, a trouble lamp, an automobile circuit breaker to take the place of fuses, Sparton electric horn, and a new type of horn. The bodies of all the foregoing models have been so designed that an enclosed detachable top may be had, added, and which the company will market at a nominal figure."

"The increase in the demand for the Haynes Automobile Company special, led in the building of high-priced cars, has caused the company's production never to exceed 1500 cars in any one year. With the event of the Haynes, popular-priced Light Six, however, the company has been wholly unable to meet the demands of the automobile buying public, despite the fact that the factory has been working overtime in the factory since August of last year, except during a brief interval in December."

"Five thousands Haynes cars have been built and marketed during the present season. A minimum of ten thousands Haynes cars, Models 34 and 35 will be built during the 1916 season."

"Significant of the Haynes prosperity is the fact that the company has in the past year, at the present time, elaborate factory extension, consisting of a four-story building, immediately east of the factory, and adjacent to the Lake Erie and Pelee Island. The latter will be an extensive concrete loading platform, thus facilitating shipment of cars immediately after washing."

"The top floor of this new building will provide new quarters for the experimental department, and preparatory are already being made to install only the best and most modern machinery used in the manufacture of motor cars."

"Immediately south of the factory, the company has purchased a large 132 feet, where the new paint shop will be erected."

"Immediately west of the factory The Haynes Automobile Company has likewise made additional real estate purchases, and ground is already broken for the erection of the most elaborate administration building in the present. The present office building company will be removed from the factory, thus giving the first assembly of nine thousand square feet. The Haynes management, has since the first week of the year, invested in the neighborhood of \$75,000 worth of special machinery and equipment for the

Republic Truck Gets 63 Times Their Proportionate Amount of Business

Alma, Mich, June 12, 1915 I. W. Dill, Mulberry St. Bridge, Harrisburg, Pa. Last month there were one hundred two trucks sold in the state of California. Twenty-one of these were sold by Republic distributors. This is remarkable evidence of Republic popularity. Republic Motor Truck Co.

By dividing the number of trucks sold in the above territory by the number of manufacturers, we find that each maker would be entitled to a proportionate sale of one-third of a truck. Continental Motor, Bosch Magneto, Stromberg Carburetor and chainless drive, at \$995, has secured for the Republic sixty-three times their proportionate amount of business. A like preference is given the Republic throughout the entire country. Save yourself time and money by investigating the construction and price of the Republic.

Sold at the Hudson Sales Agency EAST END MULBERRY STREET BRIDGE

Haynes Factory Obligated to Put Up Tents For Cars

"During the three weeks following the announcement of the new 1916 Haynes Light Six cars at the new prices, 2542 orders for immediate delivery have been placed at the factory," states C. E. Hoin, of Roberts & Hoin, distributors for the Haynes Light Six.

"Over 900 of the 1916 chassis have been crowded out of the assembly department on account of the increased production and are parked in a large open five-acre tract adjoining the factory. Every department has been running overtime for the past eight months. New departments have been added to take care of the increasing demand for cars. Steering gears, mufflers, clutches and crowned fenders are now being made in the Haynes factory."

Cole Factory Working Night and Day Shifts

The big Cole plant is running day and night in various departments trying to increase the output. In one section of the paint department last week 151 chassis were being made ready for final assembly and shipment."

"In speaking of the prospects for the 1916 season now opening, Mr. Henderson, president of the Cole Company, expressed confidence and optimism of the motor buying public and asserted that never in the history of motor car manufacturing was the outlook so bright as it is at the present time."

"For the first time in my experience in the automobile business," said Mr. Henderson, "I have been able to announce a record-breaking sales year on the floors of the various dealers throughout the country. More than 500 demonstrating cars are now in the hands of our dealers."

"As a result, the volume of business now being handled by the Cole Company is considerably more than double the amount that has been handled at any previous time in the history of the company."

"The busiest summer and Fall in Cole history is predicted. The month of May broke all records of the Cole Company when the sales for that period were more than 40 per cent. greater than any other month since the inception of the concern. Mr. Henderson affirmed that not the slightest let-up in business had been noted despite the recent announcements of lower-priced new models."

Dealers handling the Cole product throughout the country are sending words of praise for the Cole eight-cylinder car and they also are presenting a record-breaking sales year. Telegrams pour into the Cole offices each day telling of the wonderful performance of the Cole eight-cylinder car. More cars are being hurried forward, Chicago, New York, Buffalo and other big centers are asking for trainloads of shipments of the eight-cylinder car. According to those conversant with the motor car industry of the city, the Cole Company is said to be setting new sales records and also manufacturing records for Indianapolis.

manufacture of axles, fenders, clutches, transmissions and steering gears. Quarterly dividends are being paid regularly on the Haynes common stock, which is now selling at a substantial premium."

"The Haynes is represented in this territory by Roberts & Hoin, at 334 Chestnut street.

"Every available inch of factory space is crowded to the limit. Much machinery is in operation in the open temporary roofs. A new loading platform has been erected to facilitate shipments. Adjoining ground has been purchased and additions are under way. A new administration building is being erected."

"The increased demand has brought about such an expansion of business that the Haynes Automobile Company is now the largest manufacturer of automobiles in the State of Indiana, and second only to Michigan in its production of cars."

"Five thousand Haynes cars were built for the 1916 season and entirely sold by April 1. A minimum of ten thousand Haynes cars will be built during the 1916 season. The Light Six models, having the same six cylinder motor used during the 1915 season, will be produced exclusively."

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Oldsmobile Business Reaches Highest Point Since the announcement of their 1916 line, entailing a drop of \$190 in the price of their four-cylinder model, the Olds Company of Lansing, Mich., has sold and shipped cars faster than at any previous time in the history of the concern, according to the statement of their general sales manager, J. V. Hall.

Union Sales Co., Inc Second and North Streets