

MOTOR PRODUCTION HAS SLOWED DOWN

Report From Detroit Shows October Slack Month.

FORD CONTINUES HEAVY

Dodge and Buick Also Active, but Others Cut to Half of September Output.

DETROIT, Nov. 20.—Exclusive of Ford, Dodge and Buick production, only 10,432 passenger automobiles were built in the Detroit territory in October. This territory includes all of Michigan as well as the Overland and Willys-Knight plants in Ohio. This compares with 27,251 built in September, exclusive of the same three factories. The total produced in October was 124,439 compared with 139,350 in September.

The Ford factory reported a record month for October with 99,367 cars and trucks. The high daily record was established October 24 with a production of 4,688. Dodge started October with a schedule of 625 daily and maintained it throughout the month. Buick built 12,690 in October but announces this schedule will be cut from 350 daily to 330 daily from December 1.

Several Factories Cut Production.
Hupp, which has been running to capacity in spite of the slump, cut production from around 2,500 a month to ten a day on October 1, and the factory now is operating on that schedule. Cadillac maintained capacity production and put out 2,000 cars in October despite a 25 per cent reduction in the number of employees two months ago. The labor efficiency permitted maintenance of the capacity schedule, according to Vice-President Layne.

A majority of the plants are taking advantage of the slump to take inventory and making no attempt at production. The greatest part of October, resumed November 15, according to President Warner, Chevrolet averaged 85 cars daily from October 13, and will try to maintain that schedule indefinitely. Oldsmobile is taking inventory and will be down indefinitely.

Few Trucks Being Made.
Packard is working hard on the new single six, but is building only enclosed models of the twin six. Production for October was cut about 50 per cent from normal, which is around 750. Packard is building practically no trucks, Paige was about 25 per cent under the September output of passenger cars and did virtually nothing with trucks.

Studebaker is running full blast in its South Bend plant, but was away off in production at its Detroit plant, the October production in which was 7,680, or about 32 per cent under capacity. The Detroit factory is running only four days a week. Saxon and Scripps were down the greater part of October and their production was off 60 per cent. Hudson-Essex has been practically closed, but will open some day. Liberty and Columbia were approximately 70 per cent off in October production. King built about 20 cars in October before the receivership.

SCENIC HIGHWAY IS FINISHED

New Road Near Spokane Follows Upper Columbia for Miles.

MILES, Wash., Nov. 20.—The last link of the North Star highway, a 100-mile scenic route from Davenport in Lincoln county to Stevens Falls in Stevens county, has been completed. This finishing work was across the former Spokane Indian reservation, a 100-mile stretch of the river valley and side canyons with uplands of the wheat lands of north Lincoln county and the valley of the Stevens county. From DeWitt bridge north to Hunter the survey follows a new route, using only the old road. From the bridge the new survey is in the Spokane river valley in a northwesterly direction about two miles to the mouth of Whiskey creek, the old outlet of McCoy lake. This canyon gives a six per cent grade out of the river valley to the uplands passing to the north side of McCoy lake.

From there the survey follows the old road with slight modifications to Oronathan creek valley, thence northward by Hall lake to Fruitland and Hunter where the survey follows the old road, eliminating the short curves and seeking the best routes and grades.

The general trend of the survey secures long, sweeping curves, with no blind points. The scenic beauty of this route is unusual, passing through upper Columbia valley and through the meadow and fruit lands of Stevens county and the Spokane river valley to the wheat growing farms of north Lincoln county. Most of the route is protected from heavy winds by mountains, timber and valleys, making it a comfortable road for automobilists both summer and winter.

TRUCK PLANT AT FULL SPEED

Number of Orders Alay Fears of Any Overproduction.

The factory of the Federal Motor Truck company at Detroit, Mich., is operating on a full-time schedule, according to an announcement made by M. L. Pulcher, vice-president and general manager of the company. Sufficient orders are on their books to warrant the assumption that there need be no fear of any overproduction in the future, and the company is making every preparation for an even greater output during the coming year.

A new addition to the Federal plant adding 60,000 square feet to the 200,000 square feet of factory space in the Federal plant has just been completed. This new addition will house the final assembly and paint departments.

Glidden Has World Tour Plan.

Charles J. Glidden, world traveler in automobile and airplane days, now plans to make his last expedition valuable. Glidden has organized Glidden World Tours, Inc., to encourage traveling to all parts of the world by rail, steamship, automobile and aircraft. He will conduct touring parties and will open New York and San Francisco offices and form connections in other cities of the world. Major Glidden will personally manage the company.

NEARING GOBLE, WHERE THE FERRYMAN SAYS ALL ABOARD FOR KALAMA AND POINTS NORTH.



MILD WINTER FORECAST

AUTOISTS ARE TOLD NOT TO PUT CARS AWAY.

Wear on Tires Is Declared to Be Less Than in Heat of Summer Months.

Motorists need not be quick about putting their cars in storage this year, in fact, they will get plenty of use from them if they don't store them away, for there are many indications that the approaching winter will be a short and mild one, said the weather man of the United States Rubber company, who has been busy reading the signs.

The frogs, which usually seek a cozy spot in the mud at the bottom of the pond in early autumn when bad weather is on the way, are still busily at sunset in many sections. Rural districts it has been noted that the muskrat is taking his time about building his winter habitation in northern New York, where winter sets in early, he is going about his work in leisurely fashion and probably won't get the job finished until Christmas.

In noting these facts, the United States Tire company points out that one nice thing about motoring in winter is that wear on tires is less in cold weather than in the hot summer months. Heat is the worst enemy of rubber. If cold weather lasted all the year round tire mileage records would increase amazingly.

For those who are going to put their cars away in spite of the prospect of considerable opportunity for their use, here are some things to do with regard to the tires so that they may be in good shape next spring:

1. Wash the tires carefully on outside to remove oil and grease.

2. Remove tires from the wheels and wrap them up in paper or cloth.

3. Store in a cool, dry place away from daylight.

4. If tires are left on the car, jack up the car, deflate the tires and wrap them in covers.

5. Don't let car stand on tires all winter—do so means a new set of tires in the spring.

NUMBER OF TRUCKS SURPRISE

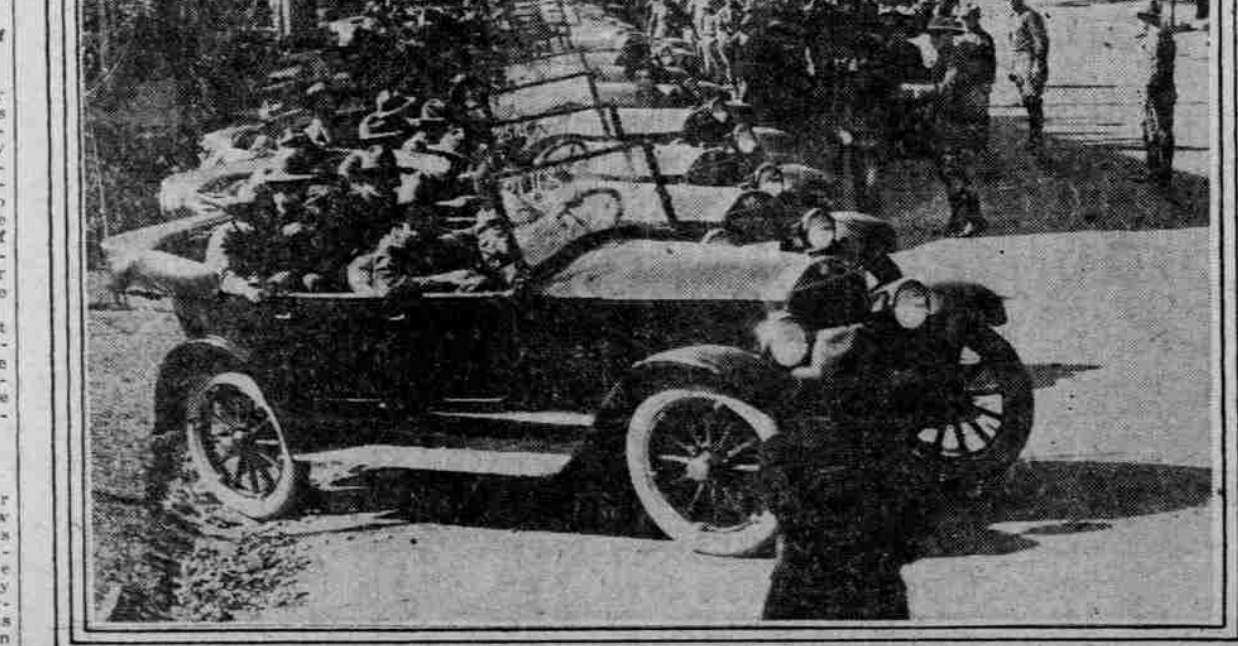
Heavy Travel Noted Between San Francisco and Los Angeles.

A trip over the highway from Los Angeles to San Francisco provides many surprises to touring motorists in the multiplicity of big rubber-tired freighters that ply constantly between these two cities, hauling every conceivable kind of merchandise. Motor trucking companies are springing up rapidly, offering efficient service, which not only helps to relieve the railroads of a portion of their heavy burden, but avoids the terminal delays that are common to all railroads.

At first these heavy-duty trucks were confined to the solid-tired class, but the advantage of big pneumatic cord tires, as demonstrated by the Goodyear Tire & Rubber company on its fleet of trucks operating in the east between Akron, O., and Boston, Mass., has led many to believe that the current will travel through it in preference to jumping the gap provided at the parking points. If you are using two-piece plugs, take them apart and clean the insulator in gasoline and if necessary scrape it until the carbon is removed. If you are using a one-piece plug use the cleaner manufactured by one of the large manufacturers of spark plugs.

"One of the mysterious troubles with which spark plugs are afflicted is the leakage of electricity. In the past this was very often due to porcelain which was poor electrically. In these days of advancement there is no longer any excuse for this trouble. All reliable spark plug makers have

BOY SCOUTS OF OAKLAND, WHO WERE RECENT GUESTS OF CLIFF DURANT, AND BIG FLEET OF SCRIPPS-BOOTH CARS PUT INTO USE FOR THE OCCASION.



Here's about all the youngsters in Oakland, Cal., in Boy Scout uniforms, ready to start for Cliff Durant's home in a fleet of Scripps-Booth cars provided by the big auto manufacturer. The occasion was a visit of a high official of the Boy Scouts to the California city, and Durant acted as host with a big banquet at his home.

SPARK PLUGS IMPORTANT

BEST OBTAINABLE INSURES ECONOMY IN LONG RUN.

Cleanliness and Correct Adjustment Guarantee Delivery of Strong Fire.

Spark plugs may seem unimportant to the uninitiated. The average owner has an idea that most any sort will do. The best plugs are not always sure these days, but the saving effected in buying the best is sufficient to justify getting them, says an article relating to spark plug care by the Goodyear Motor Truck company. The article, which contains many timely hints relating to spark plugs, is as follows:

"Spark plug troubles are most deceiving. Many owners have worried for weeks over poor ignition—poor engine performance—and they find after long investigation that a poor plug was causing the disturbance. Plugs are so deceptive that good mechanics sometimes tear down engines and ignition systems, searching for trouble which really lies in the spark plugs.

"Click up on the plugs every once in a while to make sure that all of them are hitting right. This can best be done by shortening one at a time with a screwdriver—one with a wood handle.

"In trying this test be cautious to place the steel end of the screwdriver on the iron of the cylinder before touching the spark plug, as this will prevent any shock being imparted to the person making the test.

"If there is a drop in speed of the engine, you know that your plug has been hitting. Another way is to disconnect the ignition wires on all except the plugs being tested and checking as to whether there is a clean explosion or not.

"See that your plugs are kept clean always. A part of the carbon material deposited on your plug is a good conductor of electrical current. If your plug is dirty and a continuous coating of this material has collected on the insulator of your plug, the current will travel through it in preference to jumping the gap provided at the parking points. If you are using two-piece plugs, take them apart and clean the insulator in gasoline and if necessary scrape it until the carbon is removed. If you are using a one-piece plug use the cleaner manufactured by one of the large manufacturers of spark plugs.

"One of the mysterious troubles with which spark plugs are afflicted is the leakage of electricity. In the past this was very often due to porcelain which was poor electrically. In these days of advancement there is no longer any excuse for this trouble. All reliable spark plug makers have

overcome this trouble entirely. However, in practically all cases, except where the insulator is broken, the leakage is caused by a dirty insulator where the current is traveling through the deposit of carbon instead of across the gap.

"In case of a broken insulator, if you are using two-piece plugs, the only remedy is a new insulator, which you can secure from any dealer and put into the shell of the plug yourself. About everything on a truck needs attention once in a while; if nothing more, needs to be cleaned up. Plugs need their share of attention, at least should be cleaned once in a while.

"Just one other tip—always have one or two extra plugs with you, either new ones or old ones which have been checked up. You can never tell when a plug may go bad and nothing is more aggravating than to limp along with one or more cylinders missing."

Auto Tooters Beware.

Motorists who like to foot their auto horns on the slightest provocation are having a hard time of it these days in Boston. Police in that city are waging war on unnecessary noise and whenever they catch a driver making a racket they drag him off to the hoosegow and make him answer for his crime. What's more, the judge socks it to him.

Pneumatic tires today are built for travel from 10,000 to 15,000 miles.

King Owns Largest Touring Car.

King Albert of Belgium owns the largest touring car in the world. The car is in two sections—an ordinary automobile in front with a large coachlike trailer attached. It has accommodations for 15 persons and sleeping quarters for ten. The trailer is made up of a kitchen, bathroom and a combination lounge and dining room. The machine is designed for hunting in Africa.

Oil Level Important.

In cases where the motor truck develops chronic oiling trouble it is very important to ascertain the exact level of the lubricant in the case. It is a simple matter to have two gauge pet cocks inserted in the case, one above the other. By this means positive knowledge of the oil level may be had, whereas any oil float is likely to stick and give a false reading.

Highway expenditures for this year will amount to \$623,000,000, equivalent to \$5.75 for each individual in the United States.

TRUCK USE INCREASES

OCCUPATION OF FIELD OF FUTURE JUST BEGUN.

Other Methods of Transportation Are Expected to Be Replaced by Motor Vehicles.

The motor truck has now really begun to take the field that it is to be its own for the future. If one could now predict the actual tonnage that trucks will sometime carry in these United States, replacing other methods of transportation now generally used, the prophet would probably be laughed at.

And all this tonnage must be supported on rubber tires—rubber, which thousands of inventors have sought unsuccessfully to replace—and which

is coming to be more and more indispensable in the things that modern life develops.

Tire manufacturers realize how important the truck tire field has already become and how mightily it will grow from year to year. Progress in truck tires has been noteworthy. Tires are such a vital element of truck service that their every development is worthy of careful note.

The latest development in this line is the announcement of the Goodyear Tire & Rubber company of California, that the familiar all-weather tread which has for ten years been a distinguishing characteristic of Goodyear pneumatic tires, has now been adapted to solid tires.

Exhaustive tests over a period of more than two years, during which the company's tire engineers have been perfecting the new tire, have proved out its resilient, durable and tractive qualities. Following out its policy of thoroughly testing every new product emanating from its factories, the company declares that production of solid tires bearing the all-

weather tread, has now reached a point permitting the immediate equipment of all trucks whose owners desire this type of tread.

"We are making these tires in sizes ranging from 36x8 to 48x14," said E. J. Smith, manager truck tires sales, "and are equipped to take care of all our business on them promptly. Present production plans provide for a five-fold increase between now and the first of the coming year."

In comparison with the present solid tires having smooth treads, the new tire has many advantages that will appeal to truck owners. For instance, the big diamond blocks allow better displacement of rubber as the tire rolls over the highway, and the height of the tread is greater than that of smooth solid tires, so that, in reality, the new tire is as large as most "oversize" solid tires. It is obvious that this makes for increased "cushioning" quality.

"And then, as to tread wear, the results are wholly satisfactory. We slope the diamond blocks from the base to the edge and thereby gain immunity from chipping. On trucks

where traction is the paramount requisite the new type of tire is ideal equipment for the same gripping surface is offered to the road surface that is found in non-skid pneumatic tires."

"It was noticed that during the past two winters the use of chains was not required on the company's trucks equipped with these tires, whereas chains were imperative on smooth solid-tired freighters. This is a decided advantage, especially in sections exposed to long seasons of rain and snow, for unless chains are correctly applied they are bound to work injury to tires."

In the past there have been many efforts by tire manufacturers to do their part of developing the truck industry by evolving a practical, sturdy, long-wearing tire with other qualities necessary to aid motor trucks to do their work well under a variety of conditions. In the All-Weather-Tread solid tire we feel that we are nearing the perfect solid truck tire."

Signal for all turns.

8th—ANNIVERSARY SALE—8th

SLASHING REDUCTION IN TIRES AND ACCESSORIES

Our great annual pre-inventory sale classic simultaneously featured in each of our eight splendid stores. Our huge \$500,000 stock, covering the wide range of a motorist's requirements, offered at amazing prices.

Running-Board Mats

COCOA fiber mats. Should be on every car, especially during the months of bad weather. Specially priced this week \$9.95

Windshield Cleaner

"SWIPES" cleans both sides of glass at one stroke. Value \$1.50 Our price \$1.15

Ford Headlamp Bulbs

9-Volt, 21-candle power Tungsten lamp bulbs. Sell regularly at 50c. This week only \$1.19c Each lamp tested and guaranteed.

Body Polish

JOHNSON'S liquid wax; half pints, each \$1.39c JOHNSON'S liquid wax; pints, each \$2.58c This preparation is known the world over.

Ford Coil Points

(This week only) Genuine K-W or OTTER makes, per pair \$1.17c Genuine K-W or OTTER makes, per set \$1.66c Made of finest material and guaranteed.

Rear View Mirrors

Inside (closed-car type)—2 1/4 x 7 \$2.69 2 1/4 x 10 \$2.97 2 1/4 x 15 \$3.14 Outside 5-inch round beveled, priced at \$1.56 Outside 4-inch reducing \$1.22

Piston Rings

FORD plain diagonal, each 6c FORD Step Out (lap joint) 9c All other size Step Out (lap joint) \$1.12c WRIGHT patent 2-piece rings, each \$1.49c COMPRESSO patent 2-piece rings, each \$1.79c

Ford Transmission Lining

"SCANDINAVIAN WEAVE" cotton lining, per foot \$1.9c "SCANDINAVIAN WEAVE" cotton lining, per set \$1.79c "KORKER" cork inserted cotton lining, per set \$1.97c CORK FACED cotton lining, per set \$1.09c

Ford Fan Belts

OAK TAN leather, best quality; priced this week at \$2.25 (Regular 50c value.)

Seat Covers

FORD touring car \$9.93 FORD roadster \$5.92 These sets are complete and include door pads and all necessary upholstery, tucks and fastenings. Fit perfectly and can be easily attached.

Ford Topping Outfits

For recovering Ford tops, including back curtain with windows, etc. Complete with all attaching material. This week only \$9.63

Ford Rubber Mats

Regulation rubber foot mat, very slightly blemished but not sufficient to affect wear. This week only \$9.95

Buell Exhaust Whistles

Probably the most popular warning signal sold. Single tone \$3.79 Triple tone \$4.06

Monogram Oils and Greases

OILS—1 Gal. 5 Gals. Light \$1.22 \$5.94 Medium 1.43 6.24 Heavy 1.42 6.41 GREASES—1 lb. 5 lbs. 10 lbs. Each \$2.8c \$7c \$1.61 All in original packages.

Tire Covers

Best quality black enameled drill with two fine white stripes. ABOUT HALF PRICE. For 3 1/2-inch tires \$1.98 For 4-inch tires \$2.69 For 4 1/2-inch tires \$2.97 For 5-inch tires \$2.97

Plate-Glass Windshield Deflectors

Attaches to windshield, deflecting wind, rain or dust. Fitting of cast brass, highly nicked; will not rust. Sold regularly at \$20 to \$30. This week \$9.95

Clingstone Tires Half Price

Unlimited Mileage Guarantee

Size	List Price	Sale Price	Saving
28x3	\$19.50	\$ 9.75	\$ 9.75
30x3	21.25	10.63	10.62
30x3 1/2	27.75	13.88	13.87
32x3 1/2	32.15	16.08	16.07
31x4	42.05	21.03	21.02
32x4	42.80	21.40	21.40
33x4	44.50	22.25	22.25
34x4	45.75	22.88	22.87
35x4 1/2	64.35	32.18	32.17

No charge for installation. No War Tax.

NORWALKS

THE WORLD'S MASTER TIRE

Size	FABRIC	List Price	Sale Price	CORD	List Price	Sale Price
30x3	Plain	\$22.35	\$15.64			
30x3	Non Skid	\$23.55	\$16.48			
30x3 1/2	Non Skid	\$29.90	\$20.93	\$34.60	\$24.10	
32x3 1/2	Non Skid	\$38.45	\$26.91	\$49.45	\$37.09	
31x4	Non Skid	\$42.35	\$29.64			
32x4	Non Skid	\$46.20	\$32.34	\$62.80	\$47.10	
33x4	Non Skid	\$49.90	\$35.53	\$64.55	\$48.41	
34x4	Non Skid	\$49.20	\$36.00	\$66.20	\$49.00	
34x4 1/2	Non Skid	\$65.50	\$37.00	\$74.55	\$47.68	
35x4 1/2	Non Skid	\$67.65	\$37.27	\$76.30	\$48.80	
36x4 1/2	Non Skid	\$69.75	\$38.42	\$78.20	\$49.95	
35x5	Non Skid	\$78.85	\$43.45	\$92.70	\$55.46	
37x5	Non Skid	\$83.50	\$46.00	\$96.95	\$58.02	

Inner Tube Bargains

Pure Gum-Floating Stock—Two-Year Guarantee.

Size	Gray	Red	Size	Gray	Red
30x3	\$2.29	\$2.90	34x4	\$3.83	\$4.90
30x3 1/2	2.39	3.35	34x4 1/2	4.45	6.05
32x3 1/2	2.78	3.45	35x4 1/2	4.57	6.20
31x4	3.34	4.45	36x4 1/2	4.70	6.30
32x4	3.55	4.60	35x5	5.49	7.35
33x4	3.67	4.75	37x5	5.75	7.70

Bike Tires

Our two leaders at prices far below real value: "Peerless Traction Tread," non-skid, famous Smith motor wheel tread, a substantial tire, fully guaranteed.

Special this week, each \$1.99 Special this week, pair \$3.90 "American Beauty," possibly the finest quality and most attractive bicycle tire made. Handsome, blue tread, white side wall with blue piping; made of regular tire fabric and guaranteed fully. Specially priced this week—

Each \$2.65 Fair \$5.00

Front-Wheel Theft Locks

This popular device is attached to front wheel in an instant and prevents theft of car.

For 3-inch tires \$4.98 For 3 1/2-inch tires \$5.75 For 4-inch tires \$6.20 For 4 1/2-inch tires \$6.85 For 5-inch tires \$7.43 Buy today and save about 40%.

Driving Gloves

Grinnell, Carson and Alder makes. All at less than 50c prices. Leather-lined coltskin Gauntlet for \$3.05 All-leather cuff coltskin Gauntlet for \$3.60 Art leather cuff coltskin Gauntlet for \$2.15 Leather cuff, wool-lined Gauntlet for \$5.00 Ladies' full calf kid Gauntlet for \$2.50 Short cuff, wrist-fit coltskin Glove \$2.40 Full chrome leather truck drivers' Gauntlet \$1.70

Genuine Weed Chains

20 per cent off. This week only. 30x3 1/2 \$4.00 32x3 1/2 \$4.40 31x4 \$4.80 32x4 \$4.80 34x4 \$5.60 34x4 1/2 \$6.24 36x4 1/2 \$6.40 35x5 \$6.40 37x5 \$7.90 N. B.—Cord tires require oversize.

Oil and Grease Guns

FAMOUS "LACO" guns for oil or grease. Brass plated over steel, cork plunger. Dollar value; each \$4.75 "GEM" screw feed, cork plunger for oil or grease. One of the finest guns made. Regular price \$2.00 Our sale price \$1.22

SEATTLE SPOKANE BOISE WALLA WALLA