"Show Me" Hills Climbed by Victory Sixes to Show Ability of Car

Automobile hill climbing feats, heretofore confined to certain mountains, have been nationalized by Dodge Brothers in a series of tests to obtain a composite picture of Victory Six performance. Paved and unpaved inclines throughout the country, known to native motorists as "Show Me" grades, were picked to test the Victory's ability. All records were made by different cars and drivers under varied conditions. Some of them follow

In Pennsylvania, the Victory Bix started at the foot of the faouse Uniontown hill in high gear with speed of 18 miles an hour. The three-mile climb to the summit around sharp curves and up grades of more than nine per cent was finished in high gear at 42 miles an hour.

Lookout mountain near Chattanooga, Tenn., was the scene of another test in which the Victory carried the driver and four passengers up the 4 1/2-mile climb in eight minutes. The winding highway to the top leads to an altitude of 2,300 feet, and the entire trip was made in high gear, the speed at some points reaching 45 miles an hour.

Cheyenne Mountain in High the Rockies, Cheyenne mountain, towering 9,200 feet above sea level, was easily conquered with a car load of pasgear. The road to the top is six miles long, and reverse turns make the climb unusually diffi-

the way. The hill rises 187 feet Redding. in 2,000 feet of highway, and at

Stone Mountain Topped It required just four minutes

Atlanta, Ga., proved a novel but Maria and upper Salinas rivers, as successful venture. There is no well as a side trip from San Juan road to the summit, and at one up the San Benito river to the vipoint it was necessary to go up cinity of Vancouver's Pinnacles. a rock incline with a 25 per cent a national monument and sgame

Various drivers making the tests cited the car's roadability Tires Give Most and low center of gravity permitting safe speed on turns, as ranking next to engine performance in establishing the records.

Driving Expenses For Average Car

Reusswig, engineer of the Oregon of such calls from member of A. and roller bearings aer found at State Motor association, which is A. A. clubs throughout the coun-every contact point in the new tomobile association.

Mr. Reusswig pointed out that while the range of operation costs troubles were responsible for more of the car. is from 7.05 cents per mile for a than 50 per cent of the calls for light four-cylinder touring car to emergency road service. 11.73 cents per mile for a light six-cylinder coach, the average is vealed that car owners have not that pinion and ring gear are al-

development of good roads and cent of the calls resulted from of additional adjustment and constandardization of motoring serv- cars of A. A. A. members running has been assured. The rear wheels ices have done much to lower the out of gas." operating costs," he continued.

erage motorist spent \$229 in 1927 lected for analysis, more than 30,- large wearing surface of spiral for the operation and maintenance, 000 were in connection with tire roller bearings, these have been excluding depreciation and garag- troubles and over 26,000 resulted used in the rear hubs reducing the ing charges. This was divided into from ignition systems. four principal items as follows: Mr. Work declared that brake mum. A spiral roller bearing is Replacement parts and supplies, troubles, batteries, starters, car- also used on the drive shaft at the \$41; tires for replacement, \$40; buretors and other motor ills universal joint end, assuring perfuel and lubricants, \$101 and were also represented in the an-fect alignment at all times.

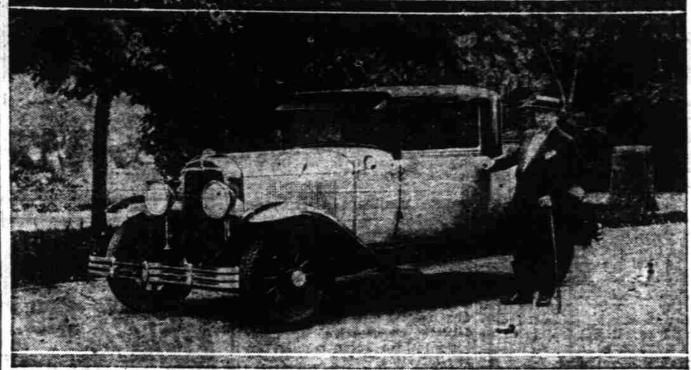
labor, \$47. He declared that the average cost of operation for 1927 was considerably lower than 1919, when the average cost was \$281. Averages for other years were: 1921, 221; 1923, \$222; 1925, and 1926, \$219.

ROLLING SPEED VARIES The rolling speed, the speed at which a car gets the best mileage on gasoline, changes as each condition that may effect an auto. Head or tall winds are the greatest influences of rolling speed. Much depends upon tire pressure, motor condition and weather, with several minor influences. It is a case of "feeling" that the motor si running best.

CLUTCH PLAY NEEDED The lost motion in the clutch pedal is an allowance for wear on the face of the clutch discs. As they wear, the play is reduced until finally it reaches the vanishing point. An adjustment should be made before clutch becomes tight

CONTRACTOR SERVICES

Ain't It a Grand and Glorious Feeling



CLARE BRIGGS, celebrated cartoonist, creator of world famous comic strips, says it really is a "grand and glorious feeling" to leave one's home in a Silver Anniversary Buick.

Northern California Valleys Present Good Bird Hunting which they are subjected and an ducts by forty firms making mo-

son opened on November 1 in Dis-dad. trict 1 1/2, points on the Pacific Quail frequent watercourses, ings making them easily accessible equipment will be viewed there. highway north of Red Bluff have Ascend any Sacramento river and lessening the number of ad- In addition to these activities become popular objectives of feeder and you will find in the foot- just ments necessary. hunters wise and willing enough hills the valley quail everywhere to drive two or three hundred in evidence. Westward from roller thrust bearings, one above show banquet at 6:30 p. m. miles form San Francisco and Woodland and Davis, and north- and one below, take up the Tuesday evening, January 8. Ev-Oakland to find regions where ward from Vallejo and Vacaville, thrust of the steering worm. A ery leading figure in the automoreal sport is assured, reports E. A. the coast range becomes wilder roller thrust bearing on the spin- biel industry attends this event, Crowley, general manager of the as the motorist heads towards the dle bolts also adds to the ease of which is looked forward to as an Pacific Highway association.

multiplication of game and fish the Sierran foothilis. There you armature bearings are immersed tives here, Corey hill, known to every Bos- valley narrows to the northward, less decimated this coming Decem- oil to last a year. Because of this automobile plants in Detroit, Toton motorist and many tourists, quail bunch together in the foot- ber, advises the Pacific highway construction the possibility of any ledo. Cleveland and other car was negotiated in high gear all hills in a semicircle radius about association.

Higher up, Mt. Shasta City and of hunting mountain quail. They New York reported a test run are unusually plentiful there-

San Francisco.

When the quail season opens for the Victory to negotiate the elsewhere in California on Decemtwo-mile winding highway up Mt. ber 1, hunters are advised by the McGregor in New York state. association to put at least 100 a game refuge, states E. A. Crow-McGregor in New 10rk state, association to put at least 100 ley, manager of the association. cation of frictionless bearings an hour. Steep grades and hair-tropolf, Some of the highpoints has been developed by the press of strates the high degree of enginpin turns make the climb one of recommended are the Cuyamaca the hardest east of the Rockies. mountains of San Diego county, Ascending Stone mountain near the courses of the Ventura, Santa

Trouble To Cars, Ignition Second

The importance of attention to ROLLER BEARINGS the car is demonstrated beyond a peradventure in an analysis of emergency road calls made pub-\$229 Each Year lie today by A. M. Work, director of the Oregon State Motor asso-Ten cents per mile pays all costs ciation, which is affiliated with of operation of the average auto- the American Automobile associa- use of frictionless bearings at

> try," said Mr. Work, "an analy-chassis where friction, caused by sis of 120,000 typical calls, based hard and constant wear, could be group of clubs, it was clearly reduced and where they contribute shown that tire and ignition to easier operation and longer life

"At the same time it was reyet yearned to check their gaso- ways in proper mesh, the rear axle "Improvement in car design, lime tanks, as more than four per has been freed from the necessity

Mr. Reusswig said that the av- out that of the 120,000 calls se- verest strain. On account of the

Since the California quail sea-|refuge, also reached from Sole-

highlands of Lake county. There steering. Tehama, Trinity, Shasta and the tufted teasers of trigger fin-

Reports received from the Wil- and impairing the operation of the The Foreign Trade committee

margin of California's inland sea. gaging the clutch and the front Between Antioch and Rio Vista. end of the clutch shaft is carried their number seems to indicate an in a radial ball bearing in the fly illusion of instinct that the delta wheel "A fine spirit of cooperation throughout, strikingly demon-

our Pacific coast in giving 'recip- eering skill applied in the designevents and varied recreational in- A Ford car. ducements to travel between British Columbia and Southern California. Each region tells what other regions have to offer, with commutator indicates abrasion resultant arousing of interest on and rapid wear. Good condition the part of motorists to 'tour the is shown by a dark brown or blue enire Pacific coast'. This 'coast-color. Wear of abrasion may be long' publicity causes wider circu-caused by a collection of dirt and lation of the tourist's dollar along rust or too heavy spring pressure. the Pacific highway."

points of hard wear is to be found "Out of hundreds of thousands in the new Model A Ford car. Ball

Through the use of taper roller bearings on the rear axle and differential, held to such close limits of an automobile bear its heavisst The motor club executive point- load and are subjected to the sefriction at this point to a mini-

While the rear wheels of a car

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L. P. Aldrich, Sec'y. Wm. S. Wanton, V.-Pres. Jos. H. Albert, Trust Officer

Automobile men from many lands are expected to take part in activities of International Day, Monday, January 7, of the 29th Annual Natonal Automobie show, to be held in Grand Central Palace. New York, January 5-12, 1929, in response to invitations which have been sent to over 7,-000 automobile dealers in 107 countries by President Alvin Macauley and the board of directors of the National Automobile Chamber of Commerce.

Opportunity for discussion of automobile merchandising problems will be afforded at a special meeting of visitors from abroad and factory executives arranged for Monday morning, January 7 at 10:00 a. m. Selling and servicing motor vehicles as well as wholesale and retail trade financing will be discussed.

On Monday afternoon a conducted visit to the sutomobile show is being arranged. Overbear the heaviest load, the front wheels must withstand the sharp seas visitors will be furnished bumps, jerks and quick turns to guides and interpreters. Extenbearings must be occasionally tor vehicles and three hundred made. The front hubs have been and fifty manufacturers of autoequipped with taper roller bear- mobile accessories and service

arranged for Monday, guests from In the steering mechanism, two abroad will attend the annual opportunity to renew old ac-Through the use of oversized quaintances and to make new Siskiyou counties are sufficiently gers are far more numerous this ball bearings inside the armature, ones Arrangemetns will be made remote from the central Califor- fall. Motor to Marysville, Oro- the efficiency and life of the gen- to permit guests from other counnia metropolitan area to permit ville or Chice, and head towards erator have been increased. These tries to meet with factory execu-

to make up for their decimation will discover as more distance you in oil, being encased in a reservoir Following this event, groups each season. As the Sacramento cover, increasing flocks of quail holding a sufficient quantity of of overseas visitors will inspect oil working into the commutator manufacturing centers.

lows Chamber of Commerce, ad- generator is entirely eliminated. of the National Automobile chamone point the grade is more than Yreka offer the added attractions vise the Pacific Highway associa- In the transmission, roller bear- ber of commerce is co-operating tion that geese are beginning to ings are used to carry the counter- with S. A. Miles, manager of the congregate in the ricelands of the shaft becaus of their adaptability show, in completing these arup Fort George hill, which is 4-10 abouts this fall and afford the rarup Fort George hill, which is 1-10 abouts this fall and afford the rarthe night the honkers mimic autosuch as those to which this shaft headed by John N Willys, and inof a mile long with a 9 1/2 decest sport of all, according to a re-horns as they herald their south-is subjected. For the same reason cludes B. C. Budd, Rufus S. Cole, grow grade at the bottom and 11 gional recreation report issued ern migration. Ducks that have a roller bearing is used in the coudegrees at the top. The start this week by the Pacific Highway dallied long in the Klamath Lake nection between spline and drive Hudson, J. D. Mooney, Jay Rothin high gear at the bottom, and Maps and travelogues are region, delayed by an unusually shafts, and these shafts in turn bun, Donald T. Stanton. Howard in high gear at the bottom, and Maps and travelogues are protracted Indian summer, are revolve on ball bearings. A ball S. Welch, and George F. Bauer, now sojourning along the marshy thrust bearing is used for disensecretary.

Set By Graham

DETROIT, Nov. 10-New production and shipping records for October were set by the Grahamrocal publicity' to community ing and building of the new Model Paige Motors corporation last month, raising the total output for ten months of 1928 to 70,406 cars, as compared with 18.800 for the same period of 1927, or a

Production last month was 52 per cent more than the best previous record for October, established in 1926, and was 3.6 times the total for October of last year. For ten months of 1928, under

the Graham management, the fac-CLEANER FOR UPHOLSTERY tory has averaged 7040 cars Soap and water is the best monthly production, higher by cleaner for motor car upholstery. 1200 cars htan the total for the Gasoline is harmful to most of the best single month of the predecesfabrics used in the motor car finsor company. ishing. This non-use of gasoline

in autos is frequently emphasized The ofice cynic's wife has by manufacturers and almost as found a book on child psychology An excellent illustration of the frequently disregarded by owners, very helpful. She uses it as a pad

Herbert J. Oslind

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Prices . . . positively the lowest in all our history of better value giving and with new Longer guarantees, that are based on superior quality ... Compare them with any other standard make batteries and you will find that point for point and dollar for dollar they offer you far greater

Wizard Storage Batteries Guaranteed 2 Years Deduct Trade-In Allowance from
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6-13 Special\$ 9.95

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OUR GUARANTEE Wizard Batteries are guaranteed 2 years Western Giant Batteries are guaranteed 21/2 years (Winard Special, 1 year)
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. CASE WALLS part of, and moulded in same piece with puter case.

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4. SEPARATORS of high-grade white cedar thoroughly treated to insure greater capacity, allow current to flow freely and give complete insulation.

5. TERMINAL POST LOWER SECTION, to which plates are securely anchored, is proper size to insure easy surrent flow,

6. TERMINAL POST UPPER SECTION—correct size for cable consection. Heavy rub-ber washer, just under ter-minal post nut, prevents acid

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8. VENT PLUGS of hard rub-ber, have heavy corrugations for easy handling.

fastened to carry current with least resistance,

INSTALLATION **FREE SERVICE**

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FREE LOAN BATTERY if needed during guarantee period.



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