

LODER BROS. GO ON WITH TACHOMETER

New Device Shows Revolutions Per Minute of Motor at Varying Speeds

Because of the successful first week of the tachometer test demonstration of four-speed advantages, Loder Bros., Graham-Paige representatives here, will continue the educational campaign indefinitely. Many motorists last week rode in a Graham-Paige demonstrator and learned from the tachometer, which shows the revolutions per minute of the motor, how the four-speed drive results in lower engine speed at any road speed, as compared with a three-speed car.

"We would like to show every motorist, by means of the tachometer, just what 'four speeds forward' means," said Mr. Loder. "We want the general motorist public to learn what every owner of a four-speed Graham-Paige has clearly realized—that the new type transmission provides an entirely new range of performance. The fact is, the Graham-Paige transmission marks a great advance of transmissions in general, regardless of the number of speeds, because of the silence, superior efficiency, and the ease of gear changing that result from the use of internal gears.

"It is only when the new principles are used in combination with a high-powered engine and a rear axle geared much higher than in the average car, that their full advantages are gained."

Precision Tests Made to Improve Rings in Dodge

The car and precision necessary in the design of pistons and the lubrication of cylinder walls where those pistons operate can readily be calculated by the fact that each piston in a new Dodge Brothers Six engine travels approximately 2,100 feet a minute inside the cylinder when the car is driven 60 miles an hour.

At that speed, the engine in the new Dodge Brothers Six is turning at the rate of 54 revolutions a second, and during every revolution each piston travels a total distance of 7.34 inches up and down in the cylinder wall. For every 100 miles the car travels, each piston rolls up a mileage of approximately 39 miles, operating in a "roadway" only 3.78 inches long.

Scouts Use Dodge Car for 12,000 Mile Trip



These three boy scouts were picked from 600 to tour the western national park system this summer. The boys started from Oakland, Calif., and will visit parks in eleven western states. At the wheel of the veteran Dodge car which has covered more than 75,000 miles, is Ansel Hall, chief naturalist for the western division of national parks. A new Dodge Brothers Six roadster is starting the boys on their way.

HOW'S THE ROAD?

Answers Framed in Weekly Report From Oregon State Highway Commission

Charm of Oregon's great outdoors is calling to the tourists of the state and the attraction of the highways and the byways of the state loom large. This week's report on the condition of the road is:

Pacific Highway
Portland-Oswego-Oregon City-Salem-Albany-Harrisburg-Junction City-Eugene-Cottage Grove-Grants Pass-Medford-Ashland-California State Line: Paved.
Paving operations under way between Canemah and New Era. South bound traffic routed over present highway. North bound traffic take detour from New Era to Oregon City.

West Side Pacific Highway
Portland-Newberg-McMinnville-Corvallis-Junction City-Eugene: Paved.

Columbia River Highway
Astoria-Rainier-St. Helens-Portland: Paved. Portland-Hood River-The Dalles: Paved. The Dalles-Arlington-Umatilla: Oiled macadam.

Old Oregon Trail
Umatilla-Pendleton-La Grande-Baker-Huntington-Ontario: Oiled macadam.
Oiling operations under way between the Union county line and Baker, and between Pendleton and Meacham.

Roosevelt Coast Highway
Clatsop, Tillamook and Lincoln Counties

Astoria-Seaside: Paved.
Seaside-Mohler-Brighton-Lake Lytle-Rockaway-Garibaldi-Bay City-Wilson River: Macadam. Oiling operations under way between Mohler and Garibaldi.

Wilson River-Tillamook-Beaver
Part paved, part macadam.
Beaver-Hebo-Neskowin-Devils Lake-Siletz River-Otter Rock-Newport: Macadam. Oiling operations under way between Newport and Siletz Bay.

Roosevelt Coast Highway
Douglas, Coos and Curry Counties
Reedsport-Lakeside-North Bend: Macadam. Free ferry across Coos Bay, 7 a. m. to 11 p. m. Road Road from Drain to Reedsport open and in fair condition.

North Bend - Marshfield - Coquille: Paved.
Coquille-Bandon-Port Orford-Gold Beach-Brookings-California State Line: Macadam.

Free ferry across Rogue river at Gold Beach, 7 a. m. to 11 p. m.
Coos Bay-Roseburg Highway-Junction Pacific Highway-Myrtle Point-Coquille: Macadam.

Green Springs Highway
Junction Pacific Highway-Keno-Klamath Falls: Macadam.
Siuslaw Highway
Junction Pacific Highway-Cheshire-Goldson - Blachly - Rainrock - Mapleton: Macadam.

Mapleton-Florence: Dirt road. Impassable in wet weather. Oiling operations under way between Cheshire and Blachly.

Corvallis-Newport Highway
Corvallis-Philomath-Eddyville-Toledo-Newport: Macadam. Resurfacing work under way on Kilno Hill Section. Loose gravel, drive carefully.

Tualatin Valley Highway
Portland-Hillsboro-Forest Grove-Carlton-McMinnville: Paved.

Mt. Hood Highway
Portland - Government Camp-Hood River: Paved to Multnomah county line, balance oiled macadam.

Klamath Falls-Lakeview highway.
Klamath Falls-Bonanza: Macadam.
Bonanza-Lorenz Mill: Newly graded market road. In rough condition.

Lorenz Mill-Beatty-Lakeview: Macadam.

Fremont Highway
Bend-Lapine: Oiled macadam.
Lapine-Silver Lake-Summer Lake: Unimproved dirt road.

Summer Lake-Paisley: Nine miles, macadam, 18 miles fair dirt road.
Lakeview-New Pine Creek-California State Line-Partly macadamized, balance fair dirt road.

Central Oregon Highway
Bend-Burns: First 12 miles under construction, traffic detoured over Bend-Burns road, fair condition; 127 miles fair dirt road.

Burns-Crane: Macadam. Burns-Vale via Drewsey: Earth road.
John Day Highway
Arlington-Condor-Fossil-Spray-Dayville-Mt. Vernon-John Day-

Prairie City-Austin-Unity-Ironside-Cow Valley-Brogan-Jameson Vale-Ontario: Macadam.
Redmond-Prineville-Mt. Hell: Macadam.

Mitchell-Antone-Dayville: Dirt road, fair condition.
Sherman Highway
Biggs-Wasco-Moro-Grass Valley-Kent-Shaniko-Junction-The Dalles-California Highway: Macadam. Reconstruction operations between Moro and Grass Valley. Through travel advised to use The Dalles-California highway.

Crater Lake Highway
Medford-Trail-Prospect-Union Creek-Klamath Junction: Oiled macadam. Road to Crater Lake now open to travel. Oiling operations under way between South Boundary Crater Lake Park and Fort Klamath Junction.

La Grande-Wallowa Lake
La Grande-Island City: Paved.
Island City-Eight-Minam-Wallowa-Lostine-Enterprise-Joseph-Wallowa Lake: Macadam.

Baker-Cornucopia Highway
Baker-Halfway: 30 miles macadam and 30 miles graded roadbed, good condition.

REDWOOD HIGHWAY
Road to Oregon Caves
Grants Pass-Deer Creek-Kerby-California State Line: Macadam. From state line to Crescent City, 43 miles macadam, 10 miles narrow roadway. Oiling operations and Ranger Station, 3 miles.

Santiam Highway
Albany-Lebanon: Oiled macadam.
Lebanon-Shea's Hill: Gravel road.
Shea's Hill-Cascadia: Macadam, road impassable between Cascadia and Ranger Station, 3 miles.

McKenzie Highway
McKenzie pass to O K
Baker-Unity Highway
Baker-Unity: 25 miles macadam, 21 miles cushioned roadbed. Good condition.

Pendleton-John Day Highway
Pendleton-Pilot Rock-Lasinka ranch: Macadam.
Lasinka Ranch-Albee: Graded road open for travel.

Albee-Ukiah: Surfaced.
Ukiah-Ritter: Rough mountain road, steep grades.

Ritter-Mt. Vernon: Partially graded and surfaced, fair condition.

ENTERPRISE-FLORA
To Lewiston, Idaho
Enterprise-Flora: Improved road to Paradise, remaining section rough country road to An-tones.

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RAILS CLAIM HUGE AMOUNT OF FREIGHT

Figures disclosing freight revenues of the rail carriers from shipments of automobiles, trucks, parts and tires, as taken from statistical reports of the Interstate Commerce commission, have

Willamette Highway
Goshen-Lowell: Macadam.
Lowell-Oakridge: Rough but passable.

Albany-Corvallis Highway
Albany-Corvallis: Paved.

Alsea Highway
Junction Corvallis - Newport Highway-Alsea: Oiled macadam.
Alsea-Tidewater-Waldport: Macadam.

All oiling operations so conducted that there is no splashing of cars.

been released by J. S. Marvin, General Traffic manager, national automobile chamber of commerce. In 1928 railroads received \$192,798,936 freight revenue from this source.

Of this, eastern roads received \$93,747,940; southern roads \$83,823,054.

In the east the New York Central lines and Michigan Central lead in revenue from the shipments, with \$27,761,021, followed by the Pennsylvania railroad with \$9,357,680, Wabash and Ann Arbor \$8,178,946 and the Pere Marquette with \$5,198,806.

In the south the Illinois Central and affiliated lines received \$5,013,013. Southern Railway system \$4,901,775, and Louisville & Nashville and Atlantic Coast Line \$3,371,380.

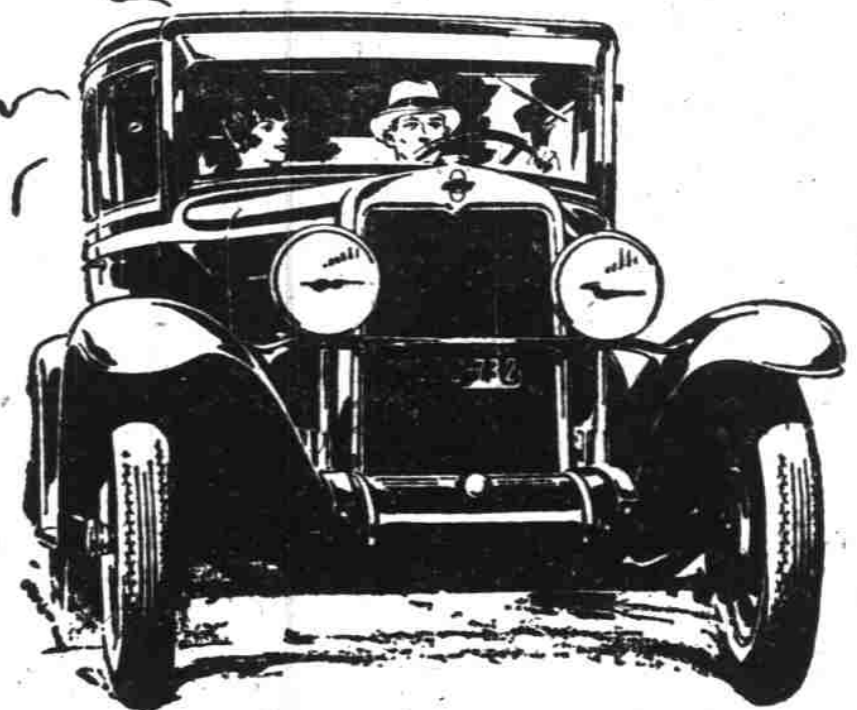
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GEARHART RODEO SHOW EVERY SUNDAY

Ponies For the Kiddies
18-Hole Golf Course at Hotel Door
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-a SIX in the price range of the four!

The Chevrolet Six is scoring a sensational nationwide success because it provides everything you want in a fine, sturdy automobile—yet it actually sells in the price range of the four.

for \$595

you can now buy in the CHEVROLET SIX

Six-Cylinder Smoothness
The inherent balance of six-cylinder, valve-in-head design assures the smooth, velvety flow of power that distinguishes the fine automobile.

Six-Cylinder Acceleration
A non-detonating, high-compression cylinder head and automatic acceleration pump give the new Chevrolet Six remarkable qualities of acceleration.

Better than 20 Miles to the Gallon.
Chevrolet engineers spent years of research and development to perfect a six-cylinder motor that delivers better than twenty miles to the gallon.

Beautiful Fisher Bodies
Rare beauty, smartness and comfort are provided in the Bodies by Fisher. Hardwood and steel construction gives them unusual strength and safety.

Amazing Low Prices—Easy Terms

The Roadster.....	\$525	The Convertible Landau.....	\$725
The Sedan.....	\$525	The Sedan Delivery.....	\$595
The Coupe.....	\$595	The Light Delivery Coupe.....	\$400
The Sedan.....	\$675	The 1 1/2 Ton Coupe.....	\$545
The Sport Cabriolet.....	\$695	The 1 1/2 Ton Coupe With Cab.....	\$650

All prices f. o. b. factory, Flint, Michigan

Douglas McKay Chevrolet Co.

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Geo. Dorr, Woodburn Hallady's Garage, Moamouth
Wm. Predeck, Mt. Angel

A SIX IN THE PRICE RANGE OF THE FOUR

Wins Fame As Racing Car



This Chrysler '70', produced in 1924, has covered 120,000 miles in the past five years, but is still winning races on the dirt track circuits in stock car events. Paul Laischo, youthful owner of the Chrysler is shown with the car, with which he won a ten mile race at Pottsville, Pa. June 22, covering the distance in 9 minutes 13 seconds.

HINTS for your SUNDAY DRIVE

We Suggest
A Trip To Breitenbush Hot Springs

Leave Salem and go to Mill City through Turner, Sublimity and Mehama. It is 39 miles to Mill City. Cross the bridge at Mill City and go 9.4 miles to Niagara. From here to Detroit is 12.3 miles and wonderful scenery all the way. From Detroit to the springs it is only 12 miles—the road opened this year is in fairly good shape and can be traveled with safety. There are good places to camp at both upper and lower camps and if you wish you may rent a furnished cabin. Wonderful mineral water both hot and cold and plenty of fishing. Hot mineral bath house at both camps. This is a trip the whole family will enjoy.

BEFORE YOU GO PUT ON A SET OF NEW MILLER TIRES

GEARED TO THE ROAD

Your trip will not be marred by tire trouble if you have Miller's on your car.

FREE ROAD SERVICE ANYWHERE IN SALEM PHONE 313

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NASH '400'

Leads the World in Motor Car Value

"400" Advanced Six Ambassador
\$2200
DELIVERED
Fully Equipped,
Nothing More to Buy!

THE AMBASSADOR BY NASH

TWIN-IGNITION-MOTORED

IMPORTANT "400" FEATURES

- Twin-ignition motor
- 12 Aircraft-type spark plugs
- High compression
- Houdaille and Lovejoy shock absorbers (exclusive Nash mounting)
- Salon Bodies
- Bonafide aluminum alloy fenders (Lower Struts)
- Double-axle frame
- Torsional vibration damper
- World's easiest steering

IMPORTANT "400" FEATURES

- 7-bearing crankshaft (below crank pins)
- Bijur centralized chassis lubrication
- Electric clocks
- Exterior metalware chrome plated over nickel
- Short turning radius
- Long wheelbases
- One-piece Salon fenders
- Clear vision front pillar posts
- Nash Special Design front and rear bumpers

THOUSANDS of people who drive the Twin-ignition-motored Nash "400" Ambassador have discovered that the most luxurious type of motoring is not necessarily prohibitive in price.

Obvious to every eye is the style and thoroughbred character of this charming motor car. There is beauty in the purity and grace of every line and curve. There is luxury in every item of interior dress and decoration, from inlaid walnut panellings to the deep, overstuffed cushions, upholstered in fabrics restricted to fine car manufacture.

And equally obvious, to those who know good motor cars, is the high quality of "400" engineering and Ambassador performance. Here, in this moderately priced car, is the Twin-ignition motor, the year's most notable achievement in power.

Another very attractive "400" feature is the "world's easiest steering." And the Ambassador is one of the easiest riding cars ever built. The wheelbase is 130 inches. The springs are built of special process alloy steel, individually designed for Ambassador size and weight, and outboard mounted Houdaille double action, hydraulic shock absorbers are regular equipment.

Other features of convenience and quality which Nash volume makes it possible for you to have at Ambassador price, are Bijur Centralized Chassis Lubrication and Chromium-nickel bumpers front and rear—at no extra charge.

Volume and its manufacturing economies plus Nash engineering skill make possible this value. More than 168,000 Nash "400's" were built and sold in the 12 months (just ended) since the "400" introduction.

Delivered, Fully Equipped Price Range of 23 Nash "400" Models, \$1085 to \$2260 includes Touring, Roadster, Coupe, Cabriolet, Victoria and Sedan Models

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