NEW CARS OFFER MUCH FOR MONEY

Willys-Knight Company Puts Out Moderate-Price Auto of Fine Quality.

ENGINE DESIGN ADDS VALUE

Makers Say Sliding Sleeve Valve Motors Improve With Use, Giving Greater Service and Satisfaction.

This is a season of surprises in the

motor car industry.

The new developments have taken the form of multiplying the cylinders of the old type of motor, of radical price reductions, or a combination such as that covered by the Willys-Knight announcement, which offers two radical changes—one in motor design the ical changes—one in motor design, the other in price. The price of \$1095 is the lowest at which a car with a Knight type motor has been offered to the public.

mille.

"Its reliability, remarkable power, smoothness of operation and economy have made it famous throughout the world," says H. H. Eling, manager of the local branch of the J. W. Leavitt Company, "One of its chief advantages is its characteristic of improving with use. It is an established fact that the Knight type of motor gives even great-er satisfaction the second and suc-ceeding years than the first. Its simple design and small number of parts insures against the various evils that frequently come under the head of motor troubles. Retiming is never nec-essary. There is no guess work. The entire action is positive and never-fail-

"Inasmuch as the power of any motor is largely determined by having the fresh gas in sufficient quantity enter the cylinders at exactly the right moment and upon the complete expulsion of all burnt gases also at exactly the right moment, the poppet valve imposes certain limitations upon all poppet-valve motors.

"Necessarily the diameter of the poppet valves is limited by the diameter of the cylinders. Their accuracy as to time of opening and closing is made uncertain because dependent upon cams and springs.

"The large sleeve valves of the Knight type motor permit valve openings much larger than can be had with poppet valves. The sleeves have a positive action, as they are opened and closed by positively operated connecting rods and therefore there is no uncertainty either as to the time or extent of the opening. It must always he exactly right and there will always he exactly right and there will always he a full opening regardless of the speed of the motor.

There has been a more or less general idea among those only partly familiar with the Knight construction, that the operation of the sleeve valves.

Through these of the tourists of the world."

"Right, Julius," remarked Samuel Hill, the perennial good roads champion. "Call this the Columbia this the Columbia Highway. Make it the beginning of the work that will create a highway as monumental as the river it parallels."

This was saild three years ago at the Gearhart Hotel. It was the first meeting assembled there were not a factor of the cyclinders. The first meeting assembled there were not a half dozen confident men in the party that believed in the possibilities of achievement when systematic and closed by positively operated connecting rods and therefore there is no uncertainty either as to the time or extended the execution and agitation was taken to have a substance of the work in the permit and the permit and the permit and the work in the work in the work in the permit and the work in the

There has been a more or less gen-eral idea among those only partly familiar with the Knight construction, that the operation of the sleeve valves might offer some difficulty. This is because it has not been known that the sleeves do not have to be made to a tight fit to hold compression as is true of the piston. The sleaves in opera-tion are always covered with a film

en more important to the successful operation of the Knight type motor than the fact that the sleeves are not called upon to retain compression is the relatively slow movement of these leeves. Whereas in the Willys-Knight the piston has a stroke of 41/2 the sleeve valve travels but one ach at one-half the motor speed. In wher words, the sleeve valves travel means that if your motor is traviling at the rate of 900 revolutions per minute, and which would be equivalent to a car speed of 24.6 miles per hour, e sleeve valves are only traveling at rate at which the pistons would avel at a speed of 100 revolutions per

Carbon Deposit Helps.

"Carbon deposit that forms so raply in the poppet valve motor and cossitates frequent cleaning, is not toticeable in the sleeve valve type.
The small amount that does form has a beneficial effect, serving to give surfaces a glass-like finish. Thus the onger the motor is used the quieter and smoother it becomes.

Model 84, as this latest production of Mr. Willys' is known, is a large, nowerful, five-passenger touring car. If it are embodied all those little comforts and conveniences that go to make up the quality car of today. In design and finish it compares favorably with ears selling for a much larger price The 40-horsepower Knight type mohuilt by foreign manufacturers for rairs selling at from \$4000 to \$8000. The cylinders, with a bore of 416 es and stroke of 416 inches, are in one block.

"The car announced by the Willysoverland Company is of the latest extreamline design. Its symmetrical lines give the long and low pleasing effect that distinguishes the modern cur from that of a few years ago. The staceful poise of the car is accentuated by the charpiers could desh weather. staceful poise of the car is accentuated by the one-piece cowl dash, gently sibping hood and full curved tonneau back. Front hinged, wide U-doors, with disappearing hinges, add to the appearance of the body, giving it a clean and smooth exterior. Frame, running board brackets, and battery live are consealed by mud shields. in addition to the five-passenger furing car there is a Willys-Knight adster, a four-passenger coupe, and

Centralia Begins Paving Programme

CENTRALIA, Wash, July 17.—(Spetial.)—The Winlock Town Council has mapped out an extensive programme of street improvements this Stammer, an ordinance having been pissed providing for the paving of West Second, Kilbourne, West Fourth and Washington streets. The material to be used will not be decided abon until the bids are opened. Tenfrar bonds will be floated to pay for the work. S. W. Porter, of Eveline, to whom the contract was awarded for hiving Front street, has already started on the work.

Portland Man on Tour.

WENATCHEE, Wash., July 17.— (Special.)—L. S. Mankin, of Portland, and F. M. Hopkins, of Spokane, ar-rived in Wenatchee Thursday on an sutomobile tour of Washington. Mr. Mankin has driven through Oregon and California this season and then shipped o Butte, where the present tour began.

JULIUS L. MEIER ONE OF FIRST TO URGE LOWER COLUMBIA HIGHWAY

Seed Is Sown by Ardent Good Roads Enthusiast and It Matures Until Work Is Now Under Way on Magnificent Boulevard Which Will Open Vistas to Automobilists Who Would Visit Sea,



Accurate road map of the Columbia River Highway from Portland to the south Claisop County line, showing also the branches into the Nehalem Valley, the connecting road from Tiliamook and from the Columbia County line through Washington County via Tualatin Plains to Portland.

and build a portion of the highway by straight manual labor. Mr. Conyers, of Claiskanle, declared that his entire community would stand by, and vote for every important improvement. Judge E. C. Judd, of Astoria, showed where Clatsop, under his regime, was going ahead in glant strides on good road work, which could be diverted to a columbia Highway system with two a structure.

situation through maps, reports and tabled data. Informal meetings were held at Rainier and Clatskanie. It was from Clatskanie that the first appeal came that inspired Mr. Meier to begin. They asked if he would not come down there and help organize the community for road work. He concluded after investigation to make the work broader and to launch the movement for a roadway from the sea to Portland and

roadway from the sea to Portland and on up the river.

To this end he called the first gen-To this end he called the first general meeting for Gearhart Hotel, Labor Day, 1912. Invitations were sent to all sections of Multnomah, Washington, Columbia and Clatsop counties. One of the best road meetings ever held on the lower resulted. Many of Portiand's most influential business men attended. Samuel Hill gave to the meeting his good reads lecture, which so inspired the lower river men that many calls were made for repetition many calls were made for repetition in the respective districts.

of this and all other good road efforts in this section.

After being thorough-going good roads boosters for many years, Simon Benson, Amos Benson and John B. Yeon then came even more prominently to the front and have by this time done such wonders with a liberal expenditure of time, energy and money that their names will forever remain immortal in connection with the giving of the great Columbia Highway.

Extension of Activities Urged.

Rufus Holman, County Commissioner f Multnomah County, made at this Objections Overcome at Last.

Through these clouds of objections distely extended to the territory bear few determined men pressed their efforts. "Bob" Yount, at Rainier, said Highway Association had reached a

where Clatsop, under his regime, was going ahead in giant strides on good road work, which could be diverted to a Columbia Highway system with two branches.

A few others of the faithful stood by Julius L. Meier, who called the first meetings, interviewed the river district men, and got a complete outline of the situation through maps, reports and tabled data. Informal meetings were held at Rainier and Clatskanie. It was from Clatskanie that the first appeal came that inspired Mr. Meier to begin.

The fight for bonds in Clatsop, Columbia and Multnomah are more recent restruction began on the largest scale known to the Columbia. As the work progressed, enthusiasm waxed greater. Strangers who have come from afar declare the Columbia prospect one of the best unfolded in any land, and prophesy for the Highway a name that will be more than continental in repute.

Now comes the third stage of the development of this highway. Since The fight for bonds in Clatsop, Co

great industrial and agricultural purgreat industrial and agricultural pur-pose carried as a collateral thought with scenic charm from the beginning, shall be given broader latitude now. "The world has come to appreciate

"We must have a branch or feed

NEW WILLYS-KNIGHT IS ANNOUNCED BY J. W. LEAVITT COMPANY, COAST DISTRIBUTORS.

Association Organized at Meeting.

Out of this meeting came the Columbia Highway Association with Julius L. Meier as president, W. D. B. Dodson, as secretary, and Paul Wessinger as tem, this network of roads leading above Rainler, and in crossing the distems radiating from the trunk line.

Columbia County line through Washington County via Tuniauli Plans

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Columbia River Boulevard.

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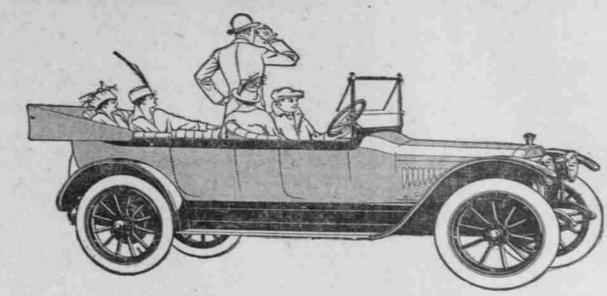
"Suffice it to say all difficulties have now been adjusted, 450 men are work-ing on the Clatsop County end between Westport and Astoria, and that part of the roadway will be finished and ready for travel not later than August 15. In Columbia County contracts for finishing the road have been divided into sections so that this part of the lighway will be finished about the

development of this highway. Since trunks are assured along the river course to The Dalles in a not distant period, President Meier jusists that the great industrial and agricultural. While all bf our thoughts at Portnaturally proud, but little thought is given the lower stretches of the Columbia. The citizens of Clatsop and Columbia counties are encouraging the engineers in charge of the work in the two separate counties and have keyed them up so that ventures are actually being made as to which county will finish their work the earlier.

finish their work the earlier. Surprise Promised Visitor. "The disagreeable things that have been said the past Winter regarding the Lower Columbia River Highway seems to have left an unfavorable impression of the highway itself in the public mind, and a great surprise awaits the first travelers down the river. They will find a highway laid out with a maximum grade of 5 per cent, a long radii of curvature 24 feet wide with ample drainage, and cement cuiverts in most instances.

"They will find scenic spots at Prescott Point below Goble, on the height above Bainian and in crossing the display.

WINTON SIX



Easy to Tell a Car's Class

The quality car is more conspicuous today and more decidedly superior than ever before. That's because there is more profit in making cheap cars than in making better ones—for the reason that thousands buy cheap cars where only a limited number of successful men and women have the taste that demands the best car that can be produced. So, numerous makers are tending more and more toward cheapness and are ceasing to compete for high-grade patronage.

This has two advantages. It is easier now for the buyer to know what cars are really superior, and also, after purchasing, his high-grade car stands out distinctively from the great streams of cars that do not belong. When he owns a Winton Six, he has the further advantage that his car is a genuinely personal possession, for its colors are of his own selection and its general appearance is the expression of his individual taste.

TWO MODELS-BOTH SIXES. 33-H. P. \$2285. 48-H. P. \$3250.

The Winton Company

23D AND WASHINGTON STREETS.

PHONE MAIN 4244

he would have his community turn out and build a portion of the highway by straight manual labor. Mr. Conyers, of Clatskanle, declared that his entire community would stand by, and vote for every important improvement is stage of the great work was undersingle improvement ever undertaken in anyone who passes over it. While a dirt road is the best we can expect this season, it will be found comfortable motoring once it is open, and rash in-ded would be the mortal who would dare to predict an approximate total of the hundreds of machines which will use it the first 30 days it is thrown

way Engineer and work progress way Engineer and work progressed rapidly last Summer and in the Fail until funds for the completion of the road ran short. The history of the various vicissitudes through which this Lower Columbia River highway passed sione that time have already heen too greatly evoluted for the been too greatly exploited for the good of the road or the citizens of the state

Work Now Going On. Suffice it to say all difficulties have now been adjusted, 450 men are work-ing on the Clatsop County end, between Westport and Astoria, and that par of the roadway will probably be fin ished and ready for travel not late than August 15. In Columbia County contracts for finishing the road hav been divided into sections, so that thi part of the highway will be finishe

about the same time While all of our thoughts at Port land have been centered on the Uppe Columbia River road, of which we an naturally proud, but little thought given the lower stretches of the Columbia. The citizens of Clatse and Columbia Counties are encouraged. ng engineers in charge of the the two separate counties, and have keyed them up so that ventures are actually being made as to which county will finish their work the

The disagreeable things that have been said during the past Winter regarding the Lower Columbia River highway seem to have left an un worable impression of the highway liself in the public mind and a gri surprise awaits the first travels down the river. They will find a high way laid out with a maximum grade of 5 per cent, a long radii of curvature 24 feet wide, with ample drainage and cement culverts in most instances.

Scenic Spots Are Many.

They will find scenic spots at Prescott Point, below Gobie, on the heights above Rainier and in crossing the divide at Busby Mountain, where the road climbs by a succession of four loops, the equal of any on the streetch from Hood River to the sea. They will find a variety of surroundings, from the magnificent river view to long stretches in the interior, such as the 12 miles through Beaver Creek Vatley, where vehicles in the Winter Scenic Spots Are Many. Vallex, where vehicles in the Winter were practically unknown until this highway was opened. After leaving Bugby Hill, all the way down to Knappa, through a magnificent territory of logged-off land of deep, rich soil which would not have been opened in the present generation except for this highway, they will see clearings started and new homes being made everywhere along the road.

They will find a highway of scenic beauty and agricultural utility, which will make it the equal of any in the West as a sight-seeing trip or to initiate the stranger into the beauties and substantial resources of our great state. It will be the useful highway to our hundreds of citizens who have Vatlex, where vehicles in the Winter

of the greatest transportation systems that me greatest transportation on the Pacific Our trunk highway along the river will into carry a havy share of this traffic, bout the river and the railways will make it the equal of any in the club's special traffic officers. The safe ty-first committee had as their guests with your hand as to turn and transportation open every production with a few will make it the equal of any in the club's special traffic officers. The safe ty-first committee had as their guests death of the river giving a sight-seeing trip, or to initiate the stransportation open every production with the county. May lines. Production will also the strategic of the river, giving a some approached the stransportation to and along the Columbiate the stransportation to and along the Columbia of the rates of this region may compete at tidewater with those of any other seed to some place with an object shead.

"It will conect the two principal tidewater with those of any other seed to some place with an object shead will be made so low that the production of the world in any market reached by the ships of the high seas.

Huge Value is Perescen.

"It will conect the two principal tidewater with those of any other seeds that the road between Seasing and the county." Mr. Holman trailed for the light and county's safety for a production will discort the state, as well as reaching the county. Mr. Holman trailed for the principal along the county. Mr. Holman trailed for the principal and the support of the world in any market reached by the ships of the high seas.

"It will conect the two principal tidewater with those of any other seasons that the road between Seasons that the road form fine the support of the principal and the princi

the short curves around the corners of the down-town streets. Judge Steven-son told of how he handled the cases that came before him for traffic violations. Judges Bell and Dayton spoke along the same line, expressing their views as to the best way of regulating speeders on the county roads and of how they were handleapped by the state law in meting our purpose.

SIFETY TALKS ARE HEARD

was the intention of the club to carry along a campaign of education, he said it was not the club's idea when it appointed the 100 special traffic officers to arrest all those who disobeved the traffic regulations, but to counsel with the offenders and warn them of the danger of not obeying the laws as laid down by the state and city officials. Mr. Boynton told of what the city's Safety First Commission was trying to accomplish.

Eliminating Dangers of Recklessness Are Considered.

A safety-first banquet last Tuesday evening at the home of the Automobile Club was attended by most of the club's special traffic office.

ern and Eastern Oregon points. For practically the entire distance the line lies on an easy slope, with well-drained, gravelly soll, which furnishes

cost of construction low. Roseburg Sees Many Tourists.

state law in meting out punishment to the offenders whose violations are very frequent. C. C. Overmire, president of the club, then in a few words told of what the club is trying to do in the way of "safety first."

Evaluations to those present that it and the content of the course ROSEBURG, Or., July 17 .- (Special.) Explaining to those present that it capacity.

"You can't get away from the law of averages, any more than you can escape the first of the month."

-Mister Squeegee

Now and then even atail-end baseball team will play a wonderful game.

The pitcher will have everything on the ball, everybody will bat well and field faultlessly, and luck will break right all the way. But the good games that come once or twice a month are not the ones on which the standing of the cellar champions is figured.

vision must play well day after day. So it is with tires. Their excellence is not based on the extraordinary mileage that the occasional one gives.

The team that stays up in the first di-

It is the general average of service that must be considered in estimating tire values. Diamond Squeegee Tread Tires are in favor, not because of the performance of an occasional one, but because of the superior merits of more than 99% of them.

Buy Diamond Squeegee Tread Tires at these

Size	Diamond Squeegee	Size	Diamond
30 x 3	\$ 9.45	34 x 4	\$20.35
30 x 314	12.20	36 x 41/4	28.70
32 x 314	14.00	37 x 5	33.90
33 x 4	20.00	38 x 51/4	46.00

PAY NO MORE For Automobiles, For Cyclecars, Motorcycles Put on Diamond Squeegee Tires

ARCHER and WIGGINS Sixth and Oak Strects DISTRIBUTERS DIAMOND TIRES

to our hundreds of citizens who have their Summer homes on the seashore and the trip once taken will be repeat-ed time and again, for it wil lead to some place with an object ahead.

Those in the Car, From Left to Right, Are A. D. Plughoff, General Manager of the Leavitt Company; J. H. McDuffee, General Sales Manager of the Willys-Knight Factory; J. W. Leavitt and L. H. Wagner, Coast Representative for the Willys-Knight Factory.