

MILITARY HIGHWAY PLAN IS REVIVED BY PREPAREDNESS IDEA

Army Officers Point to Strategic Value of Such Highway Along Pacific Coast.

SHOULD AN ENEMY COME

Landing Can Be Effected at Several Places Along Oregon Coast Alone That Are in Complete Isolation.

The national preparedness movement has revived interest in the long discussed military highway along the Pacific coast from British Columbia to Mexico.

A meeting will be held at Seattle April 10 to consider the matter and to urge upon congress the need of an immediate appropriation to undertake the work.

In 1916 T. W. Harris of Renton, Wash., a civil engineer, published an article advocating a military highway along the Pacific coast, but he aroused no interest in the matter.

At the Pan-American congress, held at Oakland, Cal., in 1915, a resolution was adopted recommending to congress the advisability of investigating the necessity of building a hard surfaced highway along the Pacific coast from Mexico to British Columbia and other national highways, to be used as military and commercial highways.

A number of individuals have from time to time pointed out the importance of such a highway as a national defense, but until lately, with the organization of the Coast Defense League, no concerted effort has been made to initiate the matter.

Colonel Parks Makes Report. Bearing on this subject, an interesting report was made to the Portland Chamber of Commerce last summer by Colonel J. S. Parks of the army.

First, there are a hundred places along the Pacific coast at which an enemy could make a successful landing.

Second, in addition to our navy, which must constitute the first line of defense, there must be suitable land defenses of some kind.

Third, to fortify all or any of these hundred, vulnerable points suitably would cost such an enormous sum as to be prohibitive.

Fourth, in addition to being prohibitive, it would take too long a time. It takes years to build a fort that can withstand modern artillery.

Fifth, landings are never made in the face of strong fortifications. Sixth, historically speaking, landings are always successful. As an obvious corollary to all this, some other method of defense must be devised.

The only possible substitute, said Colonel Parks, is a suitable highway paralleling the coast line, connecting all exposed harbors or other landing places along which heavy artillery may be moved quickly, as well as mobile infantry, to delay the landing as long as possible, or until heavy guns can be brought to bear on the ships or transports aiding in the landing.

"Assuming," continued Colonel Parks, "that you have a coast highway, the first line of defense had been placed, and it became necessary to prevent a landing, or, at least, a foothold, on our coast; let us see what would be necessary to do that."

By Way of Example. "Each transport carried several large flat-bottomed sampans, each ampan, closely packed, carried 50 men or a corresponding amount of cargo or material. When filled they were towed rapidly by a fleet of steam launches up to four landing stages about 150 yards long, to which they were attached by the efficient manning of two trained boatmen, who lived in the covered stern of each sampan.

On the arrival of each sampan the men disembarked in an orderly and expeditious manner and marched off at once. The cavalry led their horses ashore and picketed them, then returned for their equipment. The guns were landed very cleverly and were at once dragged by hand out of the way. The pontoons were similarly treated. They arrived in three sections, and when put together, fitted into a trail which was, each of them, pulled by one horse. Under the excellent arrangements in force, about 20 transports were enabled to land men and material simultaneously.

"Each vessel carried a number of little two-wheeled carts, which were put together at once on landing, loaded up with sacks of rice and wheeled off by three or four men to the depots.

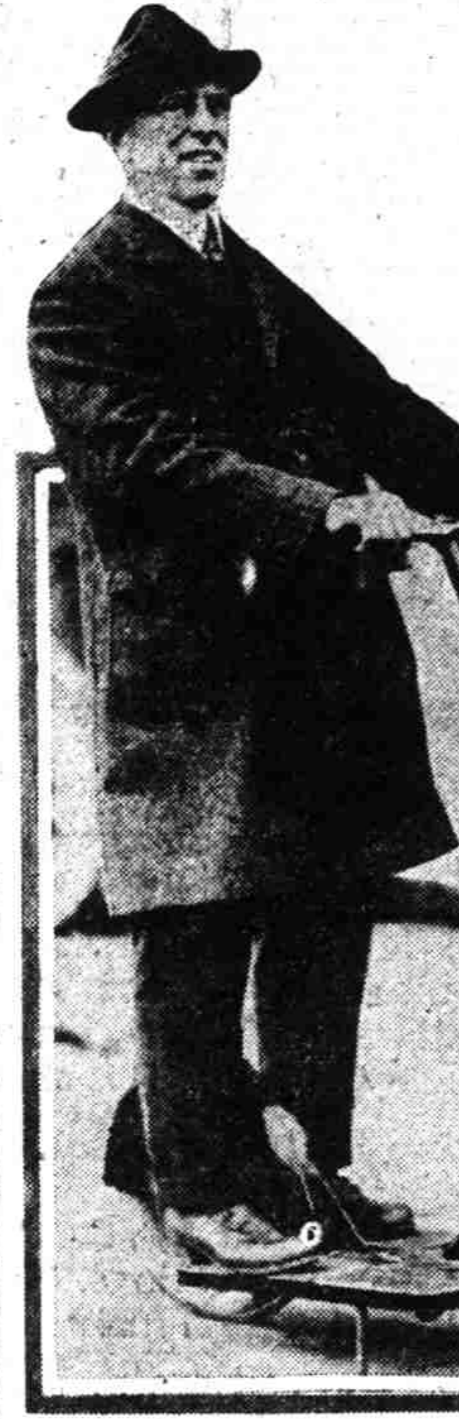
"By this means nothing was allowed to accumulate on or near the piers, or to block the gangways or exits for a moment. The infantry came ashore in heavy marching order. Blue cloth overcoat, thick brown coat, with sheep-skin collar, red blanket, knapsack, haversack, water bottle, entrenching tool, shelter tent, spare boots, straw sandals, small rice basket, cooking pot, as well as his rifle, belts, ponies and bayonet. This landing was made in a few hours.

"The Japanese division consisted of about 20,000 men with 6,000 horses."

An Imaginary Landing. As a concrete example of what might be accomplished by an enemy, Colonel Parks assumed that a landing should be made at Tillamook bay, only 90 miles by rail from Portland.

"There is only one means of rapid communication with Tillamook, and that is by rail, and takes seven hours," he said. "The nearest troops are at Vancouver. Before they could be entrained and reach there, the enemy would have possession of all the passes in the Coast range of mountains, which would give them control of the coast from Astoria to Newport.

THE AUTOPED



R. H. Corson, strolling about on the Autoped, which will be distributed in this city by the Stubbs Electric company.

Have you heard of the new means of transportation called "Autopeding"? It has a peculiar fascination about it that is compelling interest from people in all walks of life.

The Autoped derives its name from automobile pedestrian, and is a compact little two-wheeled gasoline-driven machine.

The Autoped is equipped with pneumatic tires, manufactured especially for it. While riding there is practically nothing to watch but the handle bar.

Crevent City, with troops still farther away. "The first thing they would do would be to take possession of every pass in the Coast range and defy Uncle Sam to dislodge them. They would live in the rich country between this range and the sea. Of course, it might be possible to dislodge them in time—but, even that would be doubtful, and would cost more in men and money than to keep them out."

Colonel Potter's Views. Active army officers have called attention to our defenseless situation. Lieutenant-Colonel Charles L. Potter of the corps of engineers, writing of the proposed military highway, said:

"Such a road would be a great addition, particularly on the coast of Oregon. I speak with some knowledge on this part of the subject, because I have recently had to consider the defense of Oregon and Washington coasts against a foreign enemy. The lack of facilities for moving troops and guns along the shore from harbor to harbor made the problem of proper defense much more difficult.

"The settlements on the Oregon coast grew up around the small harbors while the only communication with the outside world was by sea. As a result, the lateral communications along the coast have never been any more than to connect the various harbors to a railroad, which built over the mountains. As a result, there are fair roads connecting certain harbors into groups, which groups now get an outlet by rail—at Coos bay, at Yaquina bay and at Tillamook bay.

"The roads connecting the harbors in each group are poor from a military standpoint, and between the three groups there are no practical communications. As a result, there would be no way, assuming the enemy controlled the sea, as he must to attempt a landing, to move troops or artillery from one of these groups to another without bringing them back into the Willamette. This would add greatly to the difficulty of preventing a landing, and would probably mean that we would have to allow them to land and take possession of our coast, and then defeat them after they have left the coast and started over the mountains. Then we would have the advantage, since they must march in separate narrow columns, with no lateral roads for mutual support, while we would be guarding the passes by an army having all the roads and railroads of the Willamette valley for lateral communication in its rear.

Advantages of War. "Advantages of war, on which could be rapidly moved the heaviest mobile guns and large bodies of troops, would probably save us the humiliation of abandoning our coast to a foreign enemy. Such a road would have to be of the best, as to width and surfacing, since heavy guns—formerly considered of a size to require permanent fixed emplacements—are now made mobile, carried on or hauled by motor trucks.

"No estimate of the cost of such a road could be made without a thorough survey and location, and a study of the available points where proper road material could be found."

Enlargement of Tire Plant Triples Output

The Ajax Rubber company has just completed the remodeling of the Trenton plant and the erection of a number of new factory buildings which triple the former tire production capacity of the company.

The increased production that will follow the plant enlargement will enable distributors all over the country to take care of deliveries in response to dealers' orders. New branches have been opened up in Cincinnati and Omaha. Another branch will be opened in Portland, Me., in the near future.

Hughson & Merton, the coast distributors, announce a bigger business than ever, and are preparing for a big

People May Chip In To Construct Span

San Francisco, March 31.—Plans to inaugurate a campaign for the construction of a general highway bridge across the lower end of San Francisco bay are being made by the Dumbarton State Highway Bridge association, which was recently organized for that purpose.

Publicity work will be started on a large scale, just as soon as members of the association decide upon the quickest and easiest way to create sentiment in favor of the project. One of the plans is to devise a dollar membership for residents of the bay cities to be affected by the proposed improvement.

GOODYEAR COMPANY IS MAKING DIRIGIBLES FOR THE U. S. NAVY

Gas Bags Propelled by 100 H. P. Engines for Use on Land and Sea.

EACH TO CARRY TWO MEN

Speed of 35 Miles an Hour for 16 Consecutive Hours Deemed Possible in Cruising Operations.

The Goodyear Tire & Rubber company has been commissioned by the navy department to construct and demonstrate nine of the 16 dirigibles which have been authorized for use in coast and harbor patrol.

The contract to make the other sev-

en has been split up among three other concerns, in order that in case of war there may be other concerns familiar with manufacture of dirigibles. For a number of years the Goodyear Tire & Rubber company has taken an active part in aeronautics, and has co-operated with both the war and navy departments in developing means of national defense.

In these several years a number of spherical balloons for training purposes have been furnished; likewise a number of kite balloons for military observations, both on land and at sea. For a long time some people were under the impression that foreign countries had developed better talent for making lighter-than-air craft than we have here at home.

This theory was severally jolted when the \$8,000 cubic feet balloon "Goodyear," manned by aeronautic engineers, won the International balloon races out of Paris, France, in 1912. Since that time Goodyear has been foremost among the great rubber companies of this country in the development of aeronautics.

The coast patrol dirigibles which are now being built are of the non-rigid type—that is without interior framework, and are designed to operate from shore bases. They are also designed so they can light upon and arise from the surface of the water in reasonably good weather.

The dirigibles are designed to carry two men each—the pilot and one observer, and will be equipped with radio communication. It is expected that a speed of 45 miles per hour may be maintained for a total of 10 hours. For ordinary cruising, the dirigibles are designed to operate at approximately 25 miles per hour, and at such speeds will carry sufficient fuel and ballast to operate continuously for 16 hours, at heights varying from a few feet from the ground up to a maximum altitude of 7500 feet.

The dirigibles are to be ready for delivery, complete and demonstrated, within about four months, or, in other words, approximately the 1st of August. Troublesome Valves Discussed. Some relief valves have the handles set the wrong way, so that the valve shakes open. If one becomes troublesome, replace with one set properly. If this is not desired, the hole may be plugged with a piece of brass rod and a new hole drilled at right angles to the old one.

HOLDS MOST RECORDS, IS MANAGER'S BOAST OF WELL KNOWN CAR

Endurance Run, Mountain Climbing, Long Distance Drive and Economy.

That the Maxwell car holds more records than any other stock car in the world was the big statement made by W. J. LaCasse, northwest manager of the Maxwell Motor Car company. Mr. LaCasse went on to explain that speed records made by specially built racing cars do not interest the average prospective buyer, except as perhaps an item of sporting news.

"Maxwell cars were never intended for race courses," continued Mr. LaCasse. They are built for that great body of conservative people who want a car that will run every day, all day as fast as they care to drive, and will

do this at a low operating cost. Any stock car that can run for 48 days and nights without a motor stop, covering 23,022 miles of all sorts of city streets and country roads—without any repairs or adjustments—is worthy of a place in the Hall of Fame. The Maxwell is well merited the title of the world's endurance champion.

"Besides that record, we have dozens of others, a few of which I will cite: the ascent of Mt. Wilson and Mt. Hamilton, Portland to Spokane, Pittsburgh to Philadelphia, Detroit to Indianapolis, Jacksonville to Tampa and many other speed records are held by stock cars. There are many economy performance records, including the 44 mile run in and around Detroit on one gallon of gasoline. In addition, the best made by Professor Gallup of Worcester Polytechnic institute prove surpassing economy, endurance and all-around efficiency.

"It is well known that the Maxwell racing cars driven by Rickombachy during the past year are the very fastest American cars ever built."

Beginners' Mistakes Prove Costly. One of the many mistakes which prospective buyers frequently commit is to rest the feet on the clutch and brake pedals. It wears out the clutch collar, making it noisy, and may cause the brake to drag, wearing it also. The best position is to have both feet near the pedals ready for instant use.

GOODYEAR TIRE SERVICE STATIONS

Advertisement for Goodyear Tires with the headline "Goodyear Tires Are Bound to Be Good". Includes a small image of a car.

We have the friendship of a plurality of American motorists. We want to hold it and add new friends, wherever we can. We think the best place for our appeal to friends, new and old, is in our part of the exchange between us—in the tires we build.

For that reason, Goodyear Tires in themselves express the policy of our whole institution: value given for value received. They have always expressed that, and they always will, so long as sincere purpose and able effort can accomplish it.

Goodyear Service Station Dealers sell tires on the basis of the good that is in them, and on nothing else. They employ no lure of delusive discounts, definite mileage guarantees, so-called "free" service.

Every one of these fictitious inducements has to be paid for—we lump the saving and put it back into the tire. And the money you pay a Goodyear Service Station for tire value buys tire value, and that alone.

If you are a Goodyear Tire user, you know already what the Goodyear Service Station method means to you—your tires have computed it for you in extra miles delivered, in extra months of service, in consistent freedom from trouble.

If you are not a Goodyear Tire user, you owe it to yourself to learn what it can mean to you—in temper, time and dollars saved. Any Goodyear Service Station Dealer will be glad to furnish the equipment for your instruction—a set of Goodyear Tires.

And he will take pains to help you get out of those tires all the good that's in them. It will pay you to deal with the Goodyear Service Stations advertised here.

Advertisement for The Goodyear Tire & Rubber Co. Akron, Ohio. Includes the Goodyear logo.

New Ice and Snow Tractor Is Invented

Machine Designed for Breaking of Roads During the Winter Months; Speed of 25 Miles an Hour Possible.

A new idea in an ice and snow tractor has been invented by two Michigan men. Through the use of this they hope to see the road traffic in this country revolutionized during the winter months.

Instead of wheels, the tractor has four metal drums turning parallel to the body of the machine, and these drums are provided with spiral flanges, which grip the snow and ice. The drums are pointed at the forward ends, in order to enable them to mount drifts and obstacles. The device is steered by means of a runner, which runs ahead of the machine, and is operated by an automobile steering device.

The machine is especially adapted for the breaking of roads, and it is claimed that a speed of 25 miles an hour is possible.

Truck Sales Sign Of Good Business

More than \$4,000,000 worth of Packard motor trucks were sold to business men of the United States in January, February and March. Almost every line of business, large and small, is represented among the buyers.

Nearly all these trucks were sold to the industries of peace. A very few orders from the United States army are included in the total, but none from foreign military establishments.

"The prosperous condition of the nation's business probably cannot be indicated more effectively than by this record sale of motor trucks," said W. D. Froud, manager of the truck sales department of the Packard company. "I think the value of truck sales is almost as faithful a barometer of general business as is the price of steel. For trucks are used to transport goods, and when more trucks are bought, it means more goods are moving."

San Francisco Will Have Auto Exhibit

The Commercial Motor Show at San Francisco is to be held this week at the Exposition auditorium, April 3 to 7.

In addition to the exhibit of commercial trucks, there will be an interesting exhibit of motor-driven fire apparatus from the light chemical extinguisher mounted on a motorcycle to a heavy ladder truck, weighing many tons.

MONTAVILLA SERVICE STATION

FRANK G. KEVIN, Mgr. East 82d and Base Line Road Montavilla

St. Johns Hardware Co. EXCLUSIVE GOODYEAR DEALERS FOR THE PENINSULA

Automobile Accessories 102 NORTH JERSEY ST., ST. JOHNS Columbia 35

Inter-State Vulcanizing Works

215 WASHINGTON STREET Vancouver, Washington

Rainey & Schiffer

PHONE BROADWAY 31 Exclusive Goodyear Dealers

THE STORE OF PERSONAL SERVICE

Northeast Corner Broadway at Burnside

Harley-Davidson Service Center

for the NORTHWEST Motorcycle & Supply Co. 209 4th St. 488 Union Ave. N.

Tire Service

Garage & Repairing at Park and Couch SERVICE CAR BROADWAY 30

Union Avenue Garage

Repairing and Machine Work Storage, Washing, Polishing Tires, Sundries, Gas and Oil Union Ave. and Weilder St.

Goodyear Tires and Accessories

COTILLION GARAGE

14th at Burnside

Oregon Sales Company

TIRES, TUBES and ACCESSORIES Alder at Twelfth "Everything Electrical for the Automobile"

The LENTS GARAGE

GOODYEAR TIRES AND ACCESSORIES Motor Car Repairing Axel Killdahl 8919 Foster Road

Used Cars Bought for Cash

SOLD ON TERMS 1916 6-Pass. Overland, like new, \$250 Ford, with new 1917 body, hood and radiator, \$275. Many other equally good bargains. Eleven years' experience auto repairing. East Side Auto Repair Co. East 1300, 717 Hawthorne Ave.

And Us

PEERLESS TIRE & RUBBER CO. STARK—13TH—BURNSIDE Real Tire Repairs

Rose City Park Garage

"Service First" GENERAL AUTO REPAIRING OILS, GASOLINE, GREASE Tires and Supplies 52d St. and Sandy Road

EDWARDS' TIRE SHOP

331 ANKENY STREET Between Sixth and Broadway Vulcanizing Cord Tire Repairing Goodyear Tires and Accessories

C. A. Norwood

5907 Foster Road

Goodyear Tires and Accessories