**在**1983年1月,2月1日,1月1日日



#### 8.046 Miles Built in 1928; **Improved Total Now** More Than 70, 000

Through federal aid to states the improved road mileage was increased by 8,046 miles during the fiscal year of 1928, according to the recently issued report of Thomas H. MacDonald, chief of the bureau of public roads.

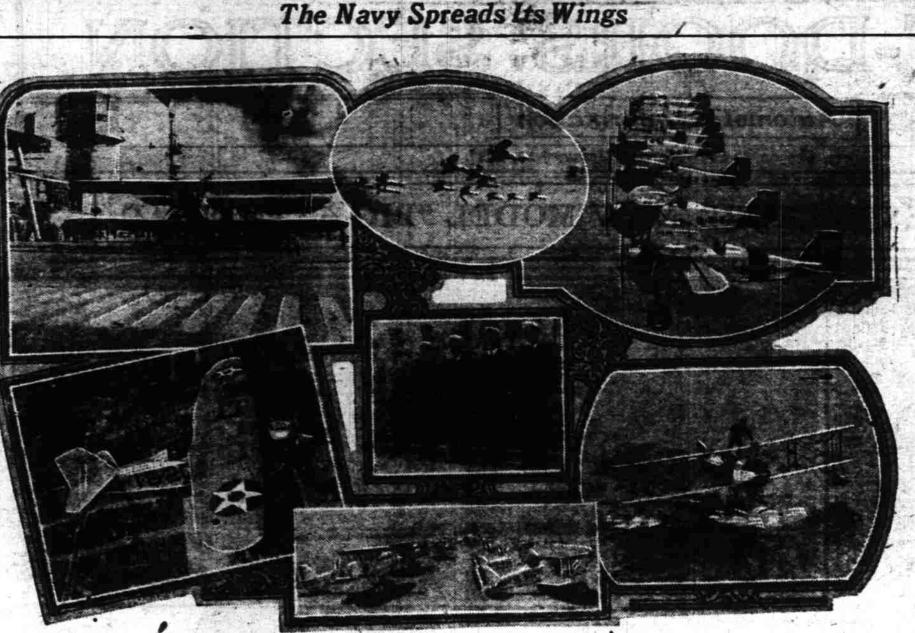
The total net length of highways bettered through federal assistance was brought to 70,852 miles, much of the mileage of 116,901 untouched by federal aid has been improved, records of the American Association of State Highway Officials show. Most of the mileage receiving attention by states and counties without federal aid have reached only the early stages of improvement. these records indicate. As matters stood January 1. the federal aid system had received no improvement whatever,

Brick Roads Laid During the fiscal year of 1928 the mileage of concrete pavement one the system was increased by 3.131 miles to a total of 17,516 miles. Brick roads were increased by 100 miles to a total of \$18; bi tuminous concrete by 159 mmfles to 1,993; bituminous macadem by 647 miles to 4,317: water-bound macadam by 127 miles to 1,426; gravel by 2,360 miles to 27,698 sand-clay by \$92 miles to 10,611 miles. In addition, 685 miles of dirt roads were graded and drained.

Mr. MacDonald, in his report. stresses the wisdom of concentrating federal cooperation in read matters on a limited mileage of highways." By pursuing this plan the most used highways in the United States are receiving attention ifrst, thereby benefiting the greatest number of road users. Bus Service to Grow

Surveys of traffic carried by the roads in several states indicate the extent of burdens borne by federal aid roads. Mr. MacDonald's report states:

"The remarkable developments that have recently occurred in the design and use of common carrier busses are prohably no



Top, left-Martin torpedo-bombers lined up on deck of U. S. S. Lexington preparatory to taking off. Center-The famous VB2B quadron that thrilled the crowds during the National Air races with its daring maneuvens figing in formation over battle fleet. Right-Precision drill by navy fighters, one of the most remarkable formation flight photographs ever taken. Rear Admiral J. M. Reeves, com-manding serial squadrons of battle fleet, second from the right, and his staff. Lower, left—Navy fighter poses for picture in mid-air. Center—Navy fighters lined up at North Island, San Diego, preparatory to flying aboard U. S. S. Lexington for maneuvers. Right— Observation plane coming under boom to be lifted aboard battleship.

LOS ANGELES, Jan. 19 .-- | forms of machine gun, bombing

and combat work. (Special Correspondent)-Conditions of actual warfare will be

simulated when the 250 naval planes, representing the three wings of the service, the fighters. up over the fleet for the opening of the combined air and naval maneuvers in Central American waters late this month.

More than 200 planes concentrated on the Pacific coast, manned by the pick of the navy. sailed from Los Angeles and San Diego harbors aboard the three airplane carriers. Saratoga. Lex- fall of the shots and then radio ington and Langley, and the ships back the results to the ships. of the battle fleet to units with They are equipped with pontoons adrons of the Atlantic

service, particularly since the per-

**Observers** Must Fight The routine training of the pllots in the fighting wing includes intercepting and attacking "enemy" planes, protecting observathe observers and bombers, form tion and bombing planes and at-

tacking enemy surface craft. The observation wing consists of three squadrons of Vought Corsair two-seater biplanes which are located with the three battleship divisions. Each squadron is composed of twelve planes whose primary purpose is to assist the battleships in gunfire control. To accomplish this they fly out to a point where they can observe the which enable them to land on

The perfection of airplane car- of the Union Oil company of Callwind. This operation is particularly interesting. When ready riers with an immense storage formis, to propel the 250 planes to send these planes into the air, space for both planes and gasoline halfway around the world. The carrier heads into the wind has made this possible. The car-inter heads into the wind has made this possible. The car-and maintains a speed of from riers when they left Los Angeles. of the nation for a highly trained, 15 to 30 knots, Besides the ship's Carried a sufficient amount of powerful artorce, and is speedspeed, such breese, as may be gasoline, loaded from the barges ing southward to spread its winga

sweeping the deck adds to the speed of the plane's takeoff. With a combined ship-wind speed of 25 knots, it becomes comparatively easy for the big bombers to soar into the air after a short run down the flight deck. These big planes carry as many as four men, two or more machine guns bombs and a heavy torpedo weighing 1800 pounds. After accomplishing their mission the bombers fly by the carrier, get the "all clear" signal, glide down into the secret arreating gear and stop in a distance of less than 100 feet on the deck.

Land Without Trouble And so cafe is this method of handling aimplanes that of the 600-odd handings on the Lexing ton there have been only six acci denst and no fatalities. The Saratoga and Langley also have records that compare favorably with those of any of the civil landing fields or airports.

The significance of the forthconcentration - and coming achieve-ments of the past year in naval aviation, navy officers point jout, lies in the fact that for the first time inhistory a navy has developed an aerial striking force capable of concentrating 5,000 miles from home and still be able to deliver a crushing blow against any enemy it might confront.



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more than the beginning of a much further development that is to occur in this form of con**veyance** 

politan centers."

according to Mr. MacDonald. &&SyP. . ..?-2ob.oedTD00adaw-



Moist-cured concrete Experiments extending over a pe- Since concrete gains strength with lieve the sick, that school may Field during the air races climbed riod of ten years on this subject age instead of losing it, the weak- keep open, that farm and city may from the ground to a height of have recently been completed by ening effect of time has been continue social and business con- 10.000 feet and back again in less the research laboratories of the largely overcome in concrete tact. Portland Cement association, Chi- structures, cago

At the time these tests were Caterpillar Sixty the strength of concrete increased indefinitely-today scientific research has proved it.

ameter and 12 inches high were

made from separate batches of A roar! Snow files and a rugconcrete and cured in a meist ged "Caterpillar" Sixty crashes atmosphere of 70 degrees Fabren- through the frezen drifts that helt. At the, end of seven days South Dakota roads may be open several of these cylinders were to "traffic as usual"-as the big crushed and the breaking load tractor "rared" full tilt into the recorded. Similar tests were per snow blockades a cameraman formed after 28. days, three caught the picture, and now it



love to change a tire



"Traffic congestion, until re-cently a serious problem only in the cities, has moved outward and imposes its time consuming délay: and manage to life and property upon the principal highways in the vicinity of the large metrothe vicinity of the large metro line of traffic as if he were going to will just naturally take it anyway. It will save you a lot of time and a fire.

Look Out for the Human Rabbit!

These actors will be carefully Once in a while this fellow is worry to let him have the right of-considered in federal aid plans stopped-usually when he crashes way until such a time as the law Into the other fellow's car. Or- can get hold of him and properly dinarily, however, there is not much take care of the gentleman.

years and five years.

When the 10 year old speci-

cylinders were found to be twice

**Hits Snow Drifts** 

the National Air races at Mines Field last summer, but it cannot dim the brilliant record of either

the observation wing or the tormonths, six months, one year, two forms the two-page center in ispedo-bombing wing .sue 33 of the "Caterpillar" Mag-

azine just off the press. Today throughout the country maximum of maneuverability and ry heavy loads. GAILS STRENGTH mens were crushed and the re-sults tabulated these decade-old myriads of these tireless "Cater-sults tabulated these decade-old myriads of these tireless "Cater-single-seater nowered with Pratt pillars" are clearing roads that gains and about .30 per cent stronger the city babies may be supplied used. One of the new Boeing atoga and fly straight into the strength with each passing year. than those tested at one year. with milk, that doctors may re- midget ships in a test at Mines

than five minutes. Of the six

squadrons of fighters, Squadron N. P. LEADS IN PAVING One and Two base normally on New York has more high type the U. S. S. Langley; Four and highways than any other state. Six on the U. S. S. Saratoga and with 11,000 miles of hard-sur- Three and Five on the U.S.S.

faced roads. Illinois leads in ce- Lexington, ment pavements with 6,000 miles In preparation for this cruise Cylinders each six inches in di- To Open Highways while Indiana has the larges each squadron carried out a premileage of all types of hard-sur arranged program of gunnery exfaced roads. ercises. This included different



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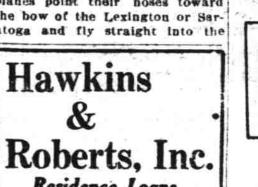
e'ne expert in advi-

the water, and are launched into scouting fleet off Panama. Tothe air from the decks of the batgether the air squadrons of the tleships by means of catapults. PPacific and Atlantic will repre-In a manner similar to that sent the most powerful aerial followed by the fighting wing, the striking force in the world. observation pilots carry on regu-Three Wings Famous lar competitive programs of fixed The glamour of combat rides and free machine gun fire, hombwith the fighters and for that

reason the fighting wing is the ing and combat work. These filbest known in and out of the ers have developed fine technique in fire control and are particularformance at the famous "Three by proficient in controlling long-Sea Hawks" at San Diego and at range firing. Take-off Interesting The torpede and bombing

wing-workhorses of naval aviation-is based on the glant Saratoga and Lexington. All of the The planes of the fighting wing planes of this wing are Martin of necessity must possess the torpedo-bombers designed to car

In taking off, these heavy single-seater, powered with Pratt planes point their noses toward and Whitney engines are being the bow of the Lexington or Sar-



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