ASPHALT CONTRIBUTING MUCH TO PROGRESS OF CIVILIZATION, HISTORY OF INDUSTRY SHOWS

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Back in the days when Nebuchadnezzar was restoring Babylon to its former glory, he used asphalt to pave the streets.

Centuries later, America's oil industry began where the king of the Chaldeans left off and has developed a product that has now paved 80 per cent of American city streets and 64 per cent. of the modern surfaces on our state highways.

The Lion Oil Refining Company is playing an important part in its contribution to American progress through the distribution of its many types of down in anticipation of future traffic hasphalt, Col. T. H. Barton, president, points out.

The history of the asphalt industry is the story of constantly increasing research to bring about an improved product at lower cost. Recognition of this fact is found in the records which reflect that in 1927 there were only about 20,00° miles in state highway systems built of asphalt; a third of the total improved roads. In 10 years mileage improved with asphalt had increased to 61,000 miles, or more than 64 per cent.

Growth of the industry is realized when it is considered that in 1913 only 436,500 tons of petroleum asphalt were more than 5,640,000 tons, an increase of more than 1,300 per cent, were produced, while 25 years later, in 1937, more than 5,640,000 tons, an increase of more than 1,300 per cent, were produced. From 1929 to 1937 the use of asphalt in construction and second, it to obviates the high interest charges involved when an expensive, rigid type pavement is put down in anticipation of future traffic. "Stage construction" means that the road is built up to its traffic, rather road is built up to its traffic, rather way developments within the last few years has been the "stabilizing" of soils ——one popularly known as the "upside down" method of road construction. This is an increase in use of more than 700 per weekend to the total roads better than plain water. Asphalt, an entirely water moving upwards through the soil.

Asphalt, an entirely suterproof binding blanket to stop the menace of the wa

more than 1,300 per cent, were promade entirely suitable for traffic with duced. From 1929 to 1937 the use of asonly this "stabilizing" process, and withphalt in construction and upkeep of out the addition of an actual pavement highways increased from 56 per cent of surface.

duced. From 1929 to 1937 the use of asophalt in construction and upkeep of
highways increased from 56 per cent of
the total materials consumed to 69.6 per
cent.

Price Trend Downward.
The asphalt market has always been
's been downward Paradoxical as it
as seem while the average value per
ton of petroleum asphalt in 1927 with
the comparatively low consumption for
state highway work was \$14.14 per ton
tothis figure being arrived at by dividing
the total value by the total tons) in
tested to always been
as only \$10.10 per ton in spite of the
enormous increase in the demand.
Not only has the value of the product
itself curved downward in the past decade, but the cost of asphalt pawements
of the highest type has likewise been
decreased. In a tabulation presented by
Thomas H. McDonald, chief of the
United States Bureau of Public Roads,
at the recent hearing before the Committee on Roads of the House of Repersentatives, it was shown that while the
cost per mile of bituminous concrete
top was \$12,055 in 1933 it dropped to
\$8,213 in 1937.

Asphalt has been a tremendous factor
in the rapid development of more than
100,000 miles of a vast farm-to-market
highway system, providing the farmer
with all-weather, dustless, mudless
roads at low cost. This has been made
possible by the fact that asphalt is itself not a type of pawement but is a
inding medium which can readily be
used with any local materials available
and provide a surface or a base of any
thickness, Consequently the pawement
may be anything from a surface treated
macadam or gravel road through various designs until we arrive at the
highway development and to lowering the
cost of highways has been in the
price type such as is constructed for the
Control of the most material as valiable
and provide a surface or a base of any
thickness, Consequently the pawement with as
inding medium which can readily be
used with any local materials available
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thickness, Consequently the pawement with
any development and to loweri ring groups, and has standardized their use according type of mineral aggregate to be used.

Equipment Aids.

There has been a remarkable development in asphalt highway equipment applying the product in either hot or cold form to the roadway. New plants now take the stone or gravel from the roadway mechanically and, after mixing it thoroughly with the asphalt, lay down in a finished pavement more quickly and cheaply than formerly

The hot mix asphalt pavements, which require hot asphalt and heated stone, sand or gravel, have also been improved in quality and lowered in cost by reason of the development in asphalt equipment and through the application of re-search to produce and proportion as-

phalt to serve the variety of needs. One of the contributions to economy and speed in the road building program has been provided through what is known as "stage" construction whereby initial improvement satisfactorily serves light traffic needs for a time,

NEW CAMDEN INDUSTRY

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Special to the Gazette. Camden, May 17.—This \$30,000 plant of the Williams Roofing Company at White City, on the site of the old Houston Oil Company's refinery, three miles south of Camden, will be in operation soon. Open house was held Thursday. J. M. Williams of Little Rock is owner.

This plant replaced the one which burned at Waterloo several months ago.

The large L-shaped buildings cover a large plot, and at the right of the buildings are the boilers and stills. Two railroad spurs were laid.

More than 100 men will be employed at this plant, and all types of asphalt roofing and shingles will be manufactured.