### Experts Deny U.S. Must Depend On Imports Of Vital War Metals

By CHARLES P. McMAHON necessary for its defense program chanized units, and shells.

Western Hemisphere or can be re- according to Eisenman. which is available homestically.

believed the real reason why the pointed out.

Jesse Jones, Federal loan administrator, has announced the creation of the Metals Reserve Company and age of vital metals, such as tin and which hitherto has been imported. manganese used in steel making,

Cost May Rise

the American Society for Metals, is American ships. confident these metals could be obtained, however, from domestic should close this market or greatly

available in the United States, or at man, by using charcoal and mercury least in the Western Hemisphere," sulphid, and at present prices dohe said. "Where the metals espec- domestic production is certain to inially desired are not available in crease. suitable quantity or quality from do- Dr. Zay Jeffries, former president mestic sources others can replace of the American Society for Metals them although at an increased cost." and recognized as a world authority

He said that tungsten, important on metals, says that two metals in steel making and electrical man- which find extensive use today in airufacture, could be replaced by moly- plane manufcature were little known bedenum, of which the United States in the early days of the World War. has a world monopoly.

Only one-half the weight of moly- sium. He declared raw supplies of · bedenum is necessary to obtain ap- magnesium are practically unlimited proximately equal physical properties in the United States. as tungsten. However, it is some- "Between 1914 and 1918," he said, Britain? this disadvantage is over-come by metal for alloys. It was produced the saying of strategic material and on a small scale and used largely Canada? the release of tungsten for many in pyrotechnics such as night flares

Tungsten Carbides Increase Perhaps one of the most important ingredient in aluminum base metals.

of these uses is the every-widening field of tungsten carbides which are extremely hard materials used in are widely used in aircraft construccutting and grinding operations. Pro- tion. The supply is unlimited as to in New York City? duction economy is effected in cer- raw materials." tain of their uses.

cemented tungsten carbides in ma- heat treated or cast and heat treat- increasing?

and industries because of entailment | Another vital metal of which the such products as propellers, pistons, ready now to begin laying. The only of overseas shipments due to the United States does considerable im- and crankcases. Aluminum clad culling possible in this kind of flock European war according to some of porting from Souh America and Rus- metals, with surfaces of pure alum- is the elimination of the very small the foremost American metallur- sia is manganese, also used in steel inum, are used for wing and fuse- deformed pullets and those with They believe that virtually every served the United States could ob- similar units. metal the country needs either ex- tain sufficient quantities from large ists in adequate quantities in the deposits in Cuba and South America, of Metals Progress, journal of the that can be practiced with pullets at

placed by a satisfactory substitute Recent attention has been given less steel first was made by accident birds may be culled throughout the However, some of these substitutes grade deposits in the western portion where metallurgists were expericost considerably more and that is of the United States, Eisenman menting to discover a strong, ero-

United States is energetically safe- He added, however, that tremenguarding its supply of strategic me- dous expense and lack of plants tals by arranging to buy far in ad- large enough to bring production up vance of actual requirements and to the country's needed capacities make domestic sources of little immediate use to fill defense needs.

Mercury Inflow Halted Eisenman cites still another exauthorization of loans up to \$100,- ample for a vital metal which may 000,000 for the purchase and stor- be produced in this country and Mercury currently is imported and now coming largely from for- from Spain and Italy at a cost of about \$180 for a flask of 76 pounds.

William H. Lisenman, secretary of red Spanish and Italian ports to If shortage of other carriers restrict it, mercuy can be poduced "Most of the metals actually are in this country, according to Eisen-

Recent war developments have bar-

They are stainless steel and magne-

what more difficult to handle. But "magnesium was not used as a base and fashlight powders. It also was Canal Zone? used to a certain extent as an alloy

Magnesium Alloys Plentiful

He pointed out that strong alu- vote in 1928 and 1936? Eisenman belives that the use of minum alloys, either forged and 9. Is the population of this country last ten years was at the rate of 7.5

chine tool operations will be increas- ed, are used for wheel supply port-Cleveland, O-The United States ingly valuable in preparing metals ing members, gas tanks, fuel and rish, State College extension poultryneed not fear lack of vital metals for aircraft parts, armor for me- hydraulic pumps and fuel equipment, man, the pullet flock, if it has been while aluminum forgings go into fed and housed properly, should be manufacturing. If these sources were lage covers, tail construction and small combs, an indication of slow

> American Society for Metals, stain- this season. Of course, the older to electrolytic processing of low- in a wartime British laboratory year. sion-proof alloy for lining big guns.

Thum believes that any shortage of metals that might develop can be obviated by the use of the same or are personal property and should not other metals, but taken from domes- be loaned to any other person for tic sources at an increased cost of the purpose of ginning or selling cot-

nations for technical knowledge as these cards have been misused. These well as specialized metals, but no marketing cards should be shown to longer is in this position. It is his contention that through

change of information outstanding American metallurgists have placed this country in a better position than ever before to strengthen de-

Schools will soon reopen and millions of young Americans will learn, to their regret, that the schoolhouse didn't get washed away in the recent

Now that the pennant races are entering their final stages we know local citizens who are about to have what looks like convulsions.

#### WHO KNOWS?

- 1. What is the relative plane strength of Germany and Great
- 4. How far is Hawaii from the
- 5. Did the Republican party sell
- a campaign book in 1936? 6. When did the United States
- "At present magnesium base alloys begin its occupation of Philippines? 7. How many night clubs operate
  - 8. What was the electrorial college

#### State College Answers **Timely Farm Questions**

Question: How should the pullett

sexual maturity. This weeding out of According to E. E. Thum, editor the runts is perhaps the safest culling

> Question: Can AAA cotton marketing cards be transferred from one

Answer: Cotton marketing cards ton in his name. The AAA warns He said that prior to 1917 the that future payments may be with-United States had relied on foreign held if there is evidence to show that the ginner, since he is required by law to make complete and accurate cooabo ation in research and inter- reports on all cotton ginned, giving the grower's name and the serial number on his marketing card.

> Question: What are prospects for good quality small grain seed this

Answer: A. D. Stuart of State College says North Carolina has one of the best supplies of quality planting seed in years. Certified seed growers this fall will have approximtely 37,000 bushels of wheat, 41,000 bushels of oats, 22,000 bushels of barley, and 4,000 bushels of rye to supply the State with its demands for pure

As we see the situation the nation has any quantity of men ready to save it, if you let them have their

#### THE ANSWERS

1. No accurate information avail-

- 2. Age 48. 3. MacKenzie King.
- 4. 8,383 miles.
- 5. Yes. 6. In 1889, during the Spanish-
- American war. 7. About 1,200.
- 8. 1928: Hoover 444; Smith 87; 1936: Roosevelt 523; Landon 8.
- 9. Yes; estimated increase during

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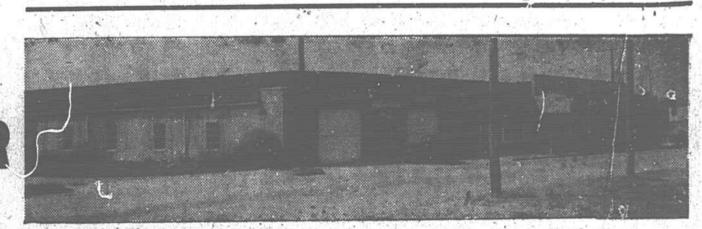
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