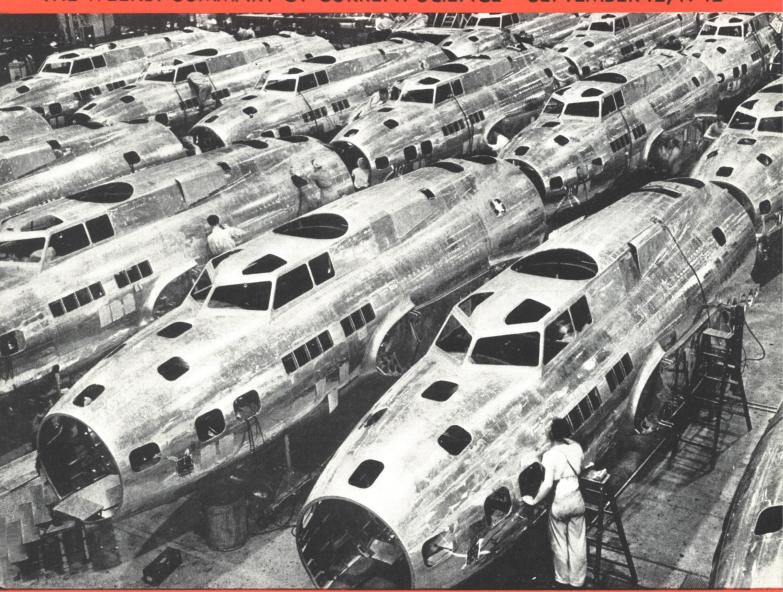


SCIENCE NEWS LETTER



THE WEEKLY SUMMARY OF CURRENT SCIENCE • SEPTEMBER 12, 1942



Nursery for War Birds
See Page 168

A SCIENCE SERVICE PUBLICATION

Do You Know?

Thiamin or vitamin B₁ was first synthesized in 1936.

Military surgeons were first given rank as officers in 1847.

By evaporation, an average oak loses about 187 gallons of water per day.

All known war gases contain one of the halogens such as chlorine, bromine, iodine.

The cowbird, though it builds no nest, is related to the Baltimore oriole which is a famous weaver.

The Aleutian Islands are treeless, fogbound, volcano-studded mountain tops protruding from the sea.

At least 26 species of wild animals in the United States have been proved capable of being infected with plague organisms.

Upholstery made from a new plastic fabric is non-porous, hence resistant to food stains, dirt, rain, oils, greases, and even chewing gum.

The United States is the leading salt producer of the world, with 28% of a total estimated at approximately 35,000,ooo metric tons annually.

The value of gold produced from Alaskan mines in 1940 marked an alltime high, surpassing even that of the boom days of the great Alaska gold rushes.

Question Box

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CHEMISTRY

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What changes in building materials for our homes are predicted? p. 163.

What kinds of flour may help replace meat in the diet? p. 163.

What new plastic is being used to make tableware for air travel? p. 169.

What products is China making from tung oil? p. 168.

DENTISTRY

What effect does dive-bombing have on the teeth of aviators? p. 169.

ENGINEERING

How is steam made to do double duty in synthetic rubber plants? p. 165.

What diseases may be carried by ticks on birds? p. 169.

What strange effect does sanguinarin have on plants? p. 172.

What new mineral deposits have the Russians discovered? p. 172.

INVENTION

How may Japanese beetles be controlled? p. 164.

MEDICINE

How are symptoms sometimes remedied that seem to come from low blood pressure? p. 163.

What new method treatment has been devised for syphilis? p. 164.

PHYSICS

What auxiliary equipment has been developed for use with the electron microscope? p. 166.
What recent discoveries have been made in electron optics? p. 167.

RESOURCES

What substitute are moonshiners using to replace sugar? p. 168.

Most articles which appear in Science News Letter are based on communications to Science Service, or on papers before meetings. Where published sources are used they are referred to in the article.

England's fishery products have dropped to 20% of the prewar catch.

The otter is such a good swimmer it can overtake almost any fish in the

Bacteria in the intestine are able to form nicotinic acid, vitamin K, riboflavin, and other vitamins.

Male gnats usually refrain from attempting to draw blood, and confine their diet to the nectar of flowers.

Nearly \$500,000 worth of mink skins are exported from Alaska each year.

Corn is the largest crop of the United States, with forest products a close sec-

Plants that capture insects can manufacture their own food when they fail to catch enough animal food.

Glass bearings no bigger than the head of a pin are replacing imported synthetic jewels for industrial jobs.

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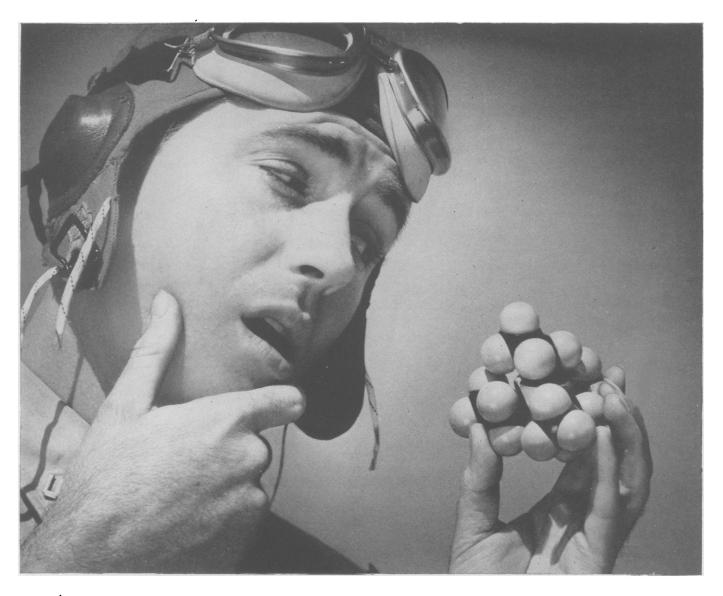
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Do you mean to say I have these things in my gas tank?"

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Ethyl fluid is put into gasoline by refiners to boost its antiknock quality (octane number). Today it is used in the production of practically all gasoline used by American air and mechanized forces.

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cules of fuel and air inside an engine. By blending Ethyl fluid with the superior fuels produced through modern petroleum chemistry, refiners are today producing large quantities of high-octane gasoline. This, in turn, permits engine designers to build high compression and supercharged engines that squeeze more power from every drop of fuel and do more

work for every pound of engine weight.

Ethyl engineers have for years assisted the technologists of the petroleum, aviation and automotive industries in their search for better fuels and engines. Today it is our privilege to offer our product, our experience and our research facilities to the cause of American victory.

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