

# U.S. Leads World in Aeronautics

Report by Army Air Service Says Americans Excel in Speed Records, Etc.

Washington.—The army air service in a report just issued here claims that the United States, which was so backward in aeronautics in the perilous World War days, has taken the lead over the rest of the world within the last year in development of the airplane motor and other phases of aircraft construction.

The air service declares that this superiority is demonstrated primarily by the fact that Americans have taken practically all the world's airplane records during the last ten months.

Credit for improvements along technical lines which have made possible this record is given to the air service engineering division at McCook field, Dayton, O., the bureau of standards and the national advisory committee for aeronautics.

### Vast Improvement Made.

The long list of records attained by army pilots have been achieved, the report states, because of the greatly increased efficiency of the new planes and engines. This increased efficiency, it is claimed, is the result of the combined efforts of private manufacturers and the engineering division in experimentation and research work.

In airplane design great progress has been made along the line of producing more efficient wings as well as greater structural strength. The study of the substitution of various metals and alloys for former construction materials has been exhaustive, with the result that a better grade of duralumin is being produced in America now than in any other country of the world.

### Liberty Motor Triumph.

To the improvement of the wartime Liberty engine is attributed the success of the transcontinental flight. Such a performance reflects to the credit of the engine with which the airplane was equipped, because a more

severe and gruelling test hardly could be imposed.

In the Pulitzer trophy race, the report says, there again was evidenced improvement in airplane engine design when the tremendous horsepower of the engine is compared with the fragile craft which it was required to drive through the air at nearly 250 miles an hour.

Keeping abreast with the world's efforts to develop a flying machine that could ascend and descend vertically the army air service, the report points out, produced during the year the De Bothezat helicopter. This machine, built entirely within the service, is among the first successful machines of its type.

## Eggs 10 Million Years Old Found

Nest Made by Dinosaur Discovered in Mongolia by Members of American Expedition.

Peking.—Dinosaurs, the colossal reptile creatures of a prehistoric era, laid eggs five to six inches long. They had nests like any gentle domestic fowl of today.

The early mammalian beasts of Asia and America were kin and roamed across the two continents on the land bridge that joined them in those remote times.

These are some of the discoveries announced by the third Asiatic expedition of the American Museum of Natural History on its return here after five months on the Mongolian plains.

### Nine Tons of Fossils.

The party was in Peking recently with what its members termed the largest find of the remains of prehistoric animals in the history of paleontology. Nine tons of fossils have been collected and will be shipped to America.

One of the leaders of the expedition, Henry Fairfield Osborn, the paleontologist, said the fossil beds found in Mongolia were the largest known to science. For the first time, he explained, explorers had at their disposal terrestrial deposits of enormous extent, still preserved in their pristine grandeur, thus enabling the reconstruction of much of the life in the middle period of the reptilian age.

The adventurers of science returned with the opinion that they had proved the Mongolian plateau to have been the center of dispersion of the most ancient animals traced.

Dr. Osborn and Roy Chapman Anderson, the naturalist, consider a spectacular feature of their discoveries the twenty-five fossilized dinosaur eggs which they found in several nests in sedimentary strata among the skeletons of medium-sized dinosaurs of a species known as *protoceratops andrewsi*. These are the first dinosaur eggs to be revealed to science, according to members of the expedition, who said that hitherto it had not been known that the dinosaur laid eggs. The eggs are elliptical, five to six inches in length, their shells now covered with a buff-colored coating. Their age is estimated at 10,000,000 years.

### HE MURDERED VILLA



This is an exclusive photograph of Jesus Salas Barraza, self-confessed murderer of Pancho Villa, as he looked in jail. Barraza stated he would kill Villa again if he arose from the dead.

### FARM LIVE STOCK

Young Cocklebur Plants Are Poisonous to Stock

(Prepared by the United States Department of Agriculture.)

The cocklebur, variously thought to have been troublesome only as a weed and because of its stiffly armed burrs, has been demonstrated definitely to be poisonous to live stock in the early stages of its growth, as was reported by other observers. The report on this demonstration is made by C. D. Marsh, G. C. Roe, and A. B. Clawson of the United States Department of Agriculture, and the results published in department circular 283, Live-Stock Poisoning by Cocklebur. Only the very young plants, before leaves have formed, produce poisoning, and the dose which produces sickness or death is about 1 1/2 pounds to a 100-pound animal. This means that young pigs up to 50 pounds in weight, which have been found the most susceptible, are poisoned by 12 ounces or less of the small cocklebur plants. Cattle or sheep also may be poisoned if they eat enough of the plants in proportion to their weight.

Little can be said so far about medical treatment for this kind of poisoning. Feeding of whole milk was found to prevent pigs feeding on the cocklebur plants from being poisoned. Salted bacon grease, lard, and raw linseed oil also gave good results. The best method, says the circular, is to keep pigs off pastures infested with cockleburs until the plants are large enough to be harmless; or to kill out the plants by mowing them before they seed. It must be remembered in this connection that each burr contains two seeds and that ordinarily only one of them will grow the first year after ripening, consequently it is not possible to kill out a patch of the plants the first year.

Copies of the circular may be obtained from the Department of Agriculture, Washington, D. C., as long as the supply lasts.

### Easy to Lead Sheep If You Know Proper Method

Most sheep lead well if properly handled, old shepherds say. Even the stubborn, fine-wool breeds will come along if they are started right. No real shepherd tries to drag a sheep by the neck or wool. From the sheep's left side he guides it, with his left arm around its neck, tickling the base of the tail with his right hand. The sheep moves—sometimes faster than is expected—but it moves.

In catching a sheep, too, there is a right way to hold the strongest ram, and a wrong one; the wrong one may let him go and will cause a bruise that takes two months to heal. Wise shepherds know that the skin is only lightly attached to the flesh, and that holding by the wool tears this tender skin loose from the flesh even farther than the hand's grip; the resulting bruise not only is painful to the sheep, but damages the carcass for market until it heals.

The best of practical tips that old shepherds pass among themselves make up a large part of the correspondence course in sheep and wool production recently included in the extension service of the state agricultural college at Ithaca.

The course is free, the only requirements being residence in New York state and a chance to work with sheep while taking it.

### Hogs Get Little Benefit From Undigested Grain

Some people argue that hogs will get the benefit from unmoistened and undigested grain which passes through animals. It would appear that this logic is no better than to contend that the threshing machine needs no special adjusting because, after all, the flock of hens will get the grain which passes out the wind stacker. Everyone knows that when grain becomes wet and allowed to become stale, in case of hogs following stock, the quality of the grain for feeding is much reduced.

It is true that calves several months old do not masticate their feed thoroughly, thus grinding oats and corn will be profitable.

### Mineral Mixtures Quite Necessary for Hog Herd

Swine growers who are puzzled about mineral mixtures will find their questions answered in the following formulas which include the essential ingredients combined in the right proportions. A careful survey of experimental work with minerals suggests the following mixtures:

Four parts acid phosphate, or two parts rock phosphate, or one part bone meal with four parts ground limestone, or six parts unleached wood ashes, or one part air-slacked or hydrated lime with one part salt.

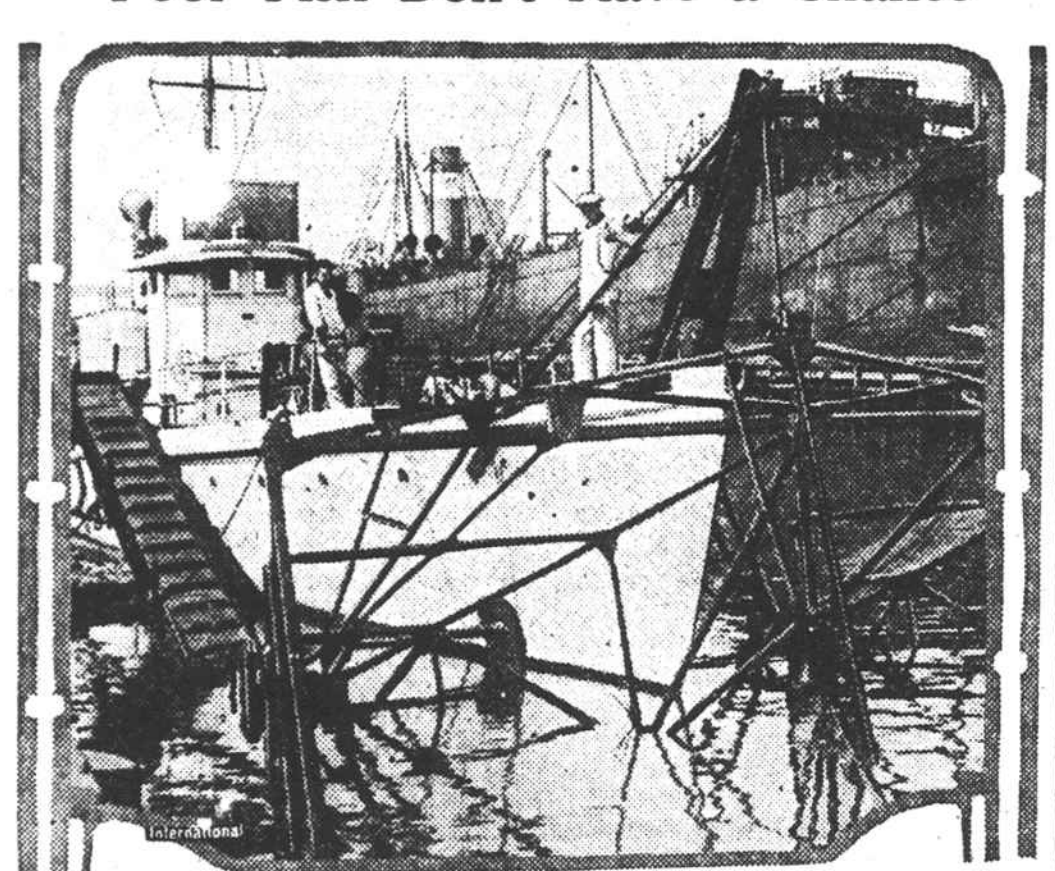
### Pigs Fed Standing Corn Will Do Little Rooting

Pigs fed standing corn with all the tankage that they would eat did no rooting. The pigs fed corn, only, did the most rooting. Pigs fed four-tenths pound per day of tankage with access to a third crop alfalfa did a small amount of rooting. Each lot also received coal and salt. The above results were secured in experiments conducted by Prof. J. H. Shepperd at the North Dakota Agricultural college experiment station.

### Boy Makes \$2,500 on \$24 Investment

Chicago.—How an office boy invested \$24 and made a profit of 10,000 per cent was related by post office officials here. A man tried to sell a Chicago business man a block of air-mail stamps, on which an airplane was printed inverted by mistake, but the man refused. The office boy, hearing of the offer, bought the stamps for \$24. Recently he sold them for \$2,500 to Col. E. R. Green, son of Mrs. Hetty Green.

### Poor Fish Don't Have a Chance



The boat Demonstrator, owned by the Lybeck Ocean Harvester company of New York, harvests the denizens of the deep by methods which make the old way obsolete. The net or scoop at the bow of the boat is lowered to a depth of 15 feet. As the boat goes through the water the fish are gathered in this scoop and carried by an escalator to the hold of the ship.

### FOSSIL CHANGES IDEAS OF BOTANICAL HISTORY

Search Rewarded by Important Geological Find.

Chicago.—Discovery of the stem of a plant similar to that of a corn stalk in a lump of limestone found imbedded in a coal seam in Illinois has changed hitherto accepted ideas of plant evolution and pushed the mystery of the origin of flowering plants millions of years further back into the geological past. Prof. A. C. Noe, paleobotanist for the University of Chicago, unearthed the revolutionary evidence after a systematic search.

The strata from which he obtained the limestone lump, or "coal ball," was identified as belonging to the carboniferous, or great coal, age of the Paleozoic era, the next to the oldest of the four great geological time divisions which contain the fossil record of the past life on the earth. He

classified the fossil stem as that of an angiosperm, or a flowering plant which had its seed enclosed in a seed container, as are the seeds of our apple, rose and oak.

No flowering plants of this sort have heretofore been proved to have grown so far back as this period of ancient geological times. The specimens previously reported of land plants with such highly organized structure have been found in parts of the earth's crust formed during the Mesozoic era, or geological middle ages, millions of years nearer to the present time.

had been taken to be a far advanced stage in plant evolution indicates that land plants must have gone through an enormously long period of development before the earliest period recorded in the fossil rocks.

### California's Governor Seeks County Supervisor

Sacramento, Cal.—The worm has turned and the job really seeks the man. Gov. Friend W. Richardson is in the unusual position of having a political plum which apparently nobody wants. It is in Alpine county, where the reluctance of the inhabitants to hold office has caused the governor to have posted in the courthouse at Markleville a notice calling for applicants for appointment as supervisor.

Supervisor George H. Luhrs of Alpine county created the vacancy by resigning. Patiently the governor waited for the army of deserving aspirants. None came. When he decided to advertise, he found there was no newspaper published in the county,

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### MUSTANG LINIMENT



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### MAXWELL HOUSE COFFEE

Portugal's National Epic. The national epic of Portugal is the "Lusiad," written by Luis Vaz de Camoens (1524-1580) and published in 1572, says the Detroit News. The great poem, which has been translated into many languages, was begun by Camoens while he was in exile in India and was completed shortly after he was allowed to return to Portugal. Before 1700, 38 editions of the "Lusiad" were printed in Lisbon. Although the "Lusiad" was, as a piece of literature, a tremendous success, it netted its author little financial gain, for, as his epitaph, destroyed in 1775, read, "He lived poor and neglected and so died."

Not Proper. "Seems to me Janet hasn't a particle of social tact." "What do you mean?" "Why, when she is invited to lunch she talks more than the girl who is to pay the bill."—Boston Transcript.

### Mrs. Hattie Wessinger



Are You Discouraged, Blue? This Advice Is of Vital Importance to You

Columbia, S. C.—"I was suffering with a breakdown in health, and became discouraged. I suffered with bearing pains and pains down through my limbs, my appetite was poor and I became frail and weak. Nothing I took seemed to do me any good. One day my husband got one of Dr. Pierce's pamphlets and we soon decided to try the 'Favorite Prescription.' My husband bought a half dozen bottles to start with. I began to improve at once and before these bottles were gone I was perfectly well and have been well ever since."—Mrs. Hattie Wessinger, 209 Sumpter St. Your health is the most valuable asset you have—do not delay but obtain this "Prescription" now. At all drug stores in tablets or liquid. Write Dr. Pierce, President Invalids' Hotel in Buffalo, N. Y., for free medical advice. Send 10c for trial pkg. tablets.

### Girls! Girls!! Save Your Hair With Cuticura

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TALKS ABOUT CARDUI

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At times I have had trouble in my sides I did not know how to get rid of it. I am a trained nurse and nursed until I married. I had a great deal of trouble with my stomach and my appetite picked up without it." "I am glad to hear that," she said, "so that I may know about the benefits of Cardui." At all

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