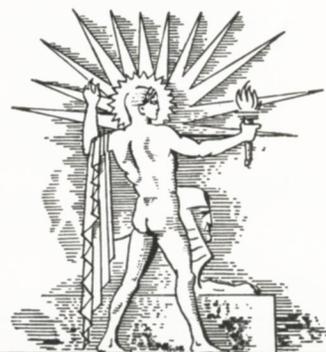


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SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE ●



December 16, 1939

New Antenna

See Page 392

A S C I E N C E S E R V I C E P U B L I C A T I O N

Do You Know?

Quickfreezing a food changes about 75% of the water present to ice crystals in about 30 minutes.

Wild turkeys are not migrating birds, but they require a larger area on which to roam than most resident bird species.

Surgical instruments used by Dr. Charles McKnight during the American Revolution have been kept safely by his descendants.

Only five states have more than half their population on farms—North and South Dakota, Arkansas, South Carolina, and Mississippi.

Greater London's animal population includes about 40,000 horses, 9,000 cattle, 18,000 pigs, 6,000 sheep, 400,000 dogs, and 1,500,000 cats.

Cornell University has just sold an All-American world's record cow, which is the daughter of another All-American former world's record cow.

Newsprint made from castor plant pulp was used in turning out a recent issue of a student newspaper at Sam Houston State Teachers College in Texas.

Printing newspapers on paper made from old newspapers, by a promising process, was exhibited recently to the public at the Franklin Institute, Philadelphia.

QUESTIONS DISCUSSED IN THIS ISSUE

Most articles which appear in SCIENCE NEWS LETTER are based on communications to Science Service, or on paper before meetings. Where published sources are used they are referred to in the article.

CHEMISTRY

What new use has been found for castor oil? p. 392.

Where will engineers try to run an engine with glucose from corn as fuel? p. 393.

CHEMISTRY—BOTANY

With what chemical are plant wounds made to heal? p. 392.

CONSERVATION—ARCHAEOLOGY

How did prehistoric Indian farmers lick the drought problem? p. 391.

ENGINEERING

What sort of bearings require only water for a lubricant? p. 396.

EMBRYOLOGY

Where are scientists studying human life almost at its very beginnings? p. 387.

FORESTRY

Why do foresters encourage the cutting of Christmas trees? p. 399.

GENERAL SCIENCE

How can body temperatures be taken at the rate of four per minute? p. 387.

What climatic happening would make Holland high and dry? p. 389.

What is the expectancy of life for man as a race? p. 389.

What serious usefulness have marbles, balloons and toy-size trains? p. 390.

Who has been called the "John the Baptist" of social science? p. 396.

MEDICINE

By what path does meningitis invade the body? p. 393.

What chemical may some day rival sulfanilamide as a remedy? p. 393.

What foods prevent stomach ulcer? p. 392.

METALLURGY

Silver linings have deserted poetry for what industry? p. 393.

PHYSICS

What tremendous power is expected of California's giant atom smasher now planned? p. 394.

PHYSIOLOGY

In what way do plant tumors differ from animal cancers? p. 388.

Dakota farmers find that they can lessen wind erosion by leaving cornstalks standing all winter in narrow baracades.

Hiding and altering the appearance of shadows cast by buildings, is one of the problems of camouflage artists in the war zone.

Danish telegraph companies have set up a short wave radio telephone system in order to communicate with England—regular telephone connections were routed via Germany and Netherlands.

A governor's edict in 1641 required all Virginia colonists who held 100 acres of land to maintain a garden and orchard properly enclosed.

Fields containing 100 mice to the acre are not uncommon in Wisconsin, conservationists report; and a mouse eats 23 pounds of green food in a year.

Pinyon pines rarely produce a big crop of pine nuts in two successive years, but this year Grand Canyon pinyons have their second successive bumper crop, to the joy of Navajo Indians.

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