

### INVENTORY OF BRAINS

*This machine, with almost uncanny talents, lists automatically all the scientists who fill the specifications of defense officials, together with the information they have provided about themselves.*

the Sudan, where a sharp epidemic involving thousands of cases and many deaths occurred in 1940. Another 250,000 doses will be sent in the near future.

The outbreak was in no way related to the movement of troops and was largely confined to the native population, Mr. Fosdick said he had recently been informed.

The risk to human beings entering South American jungle regions where yellow fever may lurk can now be determined without waiting until human deaths show the presence of the disease in a particular jungle region. Tests of wild animals can be made in advance and if the tests show that the wild animals of the region have the yellow fever virus in their veins, men entering the region can protect themselves by vaccination. Yellow fever is primarily a disease of jungle animals, transmitted from animal to animal, as from man to man, by mosquitoes.

*Science News Letter, March 29, 1941*

#### PUBLIC HEALTH

## Fifth Columnist Mosquitoes Crushed By Malaria Fighters

### No Sign of Dreaded Disease-Carrying Insect From Africa Found in Brazil at End of Year 1940

**F**FIFTH columnist mosquitoes that slipped unnoticed into Brazil and for more than a decade have wreaked destruction on human lives have been driven from their last stronghold.

No sign of the dreaded malaria-carrying mosquito from Africa, *Anopheles gambiae*, was found in Brazil during the last 47 days of 1940, the Rockefeller Foundation announces.

"Those directing the campaign no longer consider it rash to speak of the eradication of *gambiae* from Brazil," the Foundation's president, Raymond B. Fosdick, stated in his review of the Foundation's activities during 1940. (*Reviewed, SNL, this issue.*)

"It must be remembered," he added, "that the struggle will not be won until the last fertilized female *gambiae* on this side of the Atlantic is destroyed."

The mosquito had been spreading at an alarming rate in northeastern Brazil and the malaria which it produced was of a very virulent character. It is believed that it came into Brazil on an

airplane or one of the fast French destroyers which at the time of the discovery of the mosquito in Brazil in 1930 were serving the French air line between Dakar in West Africa and Natal in Brazil.

This hemisphere defense job of routing the African mosquito invaders was carried out, with the collaboration of the Brazilian Government, under the direction of Dr. Fred L. Soper, of the Rockefeller Foundation. Enlisted under him in the battle was a staff of over 2,000 doctors, technicians, scouts, inspectors, guards and laborers.

Health defense in the Western Hemisphere and in Africa also has been aided by the yellow fever vaccine developed in the Rockefeller Foundation's International Health Division laboratories. Enough vaccine for 1,000,000 or more doses is being supplied to the United States Army for vaccination of military personnel and to the U. S. Public Health Service. At the request of the British Government, 250,000 doses were sent to

## Three Flu Vaccines

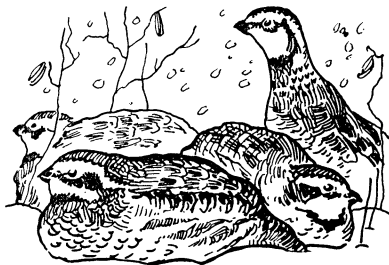
**V**ACCINES to protect against three different types of influenza will be ready for experimental testing by the winter of 1941-1942, is the hope of Rockefeller Foundation authorities and influenza researchers.

During 1940 a vaccine against one type of influenza was developed and tried in Puerto Rico, Cuba, California, Florida and Alabama. In the first two places the vaccinations were done too late to give any evidence of the protective value of the vaccine. In California "there was a suggestion" that there was less influenza among the vaccinated than among the unvaccinated groups.

In Florida and Alabama the vaccinations had been given four months before the influenza outbreak occurred. It will be months, however, before completion of the laboratory studies necessary to determine accurately the percentage of persons who suffered from influenza A in this epidemic. Final conclusions about the effect of the vaccine cannot be made as yet.

"However," the report states, "the results which are available to date suggest that, although this vaccine is by no means perfect, it may have some practical value as a prophylactic measure against one type of influenza."

A surprising discovery was made during the 1940 investigations. The cases during a single epidemic were not all caused by one (*Turn to page 207*)



**Quail Complications**

**S**OME of the complications attending the management of bobwhite quail in the Southeast were described before the recent Sixth North American Wildlife Conference, held in Memphis, by two expert quail-rearers, H. L. Stoddard and E. V. Komarek, of Thomasville, Ga.

Stocking a public refuge or a private estate with quail isn't simply a matter of hatching enough quail eggs in an incubator, rearing the chicks in pens, and turning them loose when they are big enough to look out for themselves, they made plain. Quail—any game birds, in fact—have a host of troubles to face, a swarm of enemies to escape. And some of them lurk in places where you'd never expect to find them.

Probably the average citizen would think of hawks as Number One enemies of quail. Yet the Georgian experts don't bother much about hawks, except perhaps for such specimens of the Cooper and sharp-shinned species as make themselves too troublesome. Other hawk species take relatively few quail, and are too valuable as destroyers of rats, snakes and other nest-robbers to merit persecution. In any case, adequate cover on the refuge will take care of the hawk question fairly well.

We do not commonly think of one game bird species as being the enemy of other game birds. Yet in the experience of Mr. Stoddard and Mr. Komarek, wild turkeys are often rather troublesome quail-egg eaters, where the two species share the same range. If you have wild turkey and want quail, too, you'll have to shoot off part of the turkeys to give the quail a chance. Opossums, prized by some hunters, also devour many quail eggs and young.

Finally, there is that universal enemy of all birds small enough for it to kill, the house cat, especially the feral cat, or ownerless animal running wild in the woods. Cat depredations are particularly bad in the neighborhood of farms and villages, which are always foci of cat population. It is not easy to shoot them, for cats do the greater part of their hunting in the dusky hours. However, it is possible to trap them—and cats on a bird refuge deserve no better fate, no matter whose pets they may be.

*Science News Letter, March 29, 1941*

**From Page 199**

type of influenza virus. The existence of more than one type had been known for some time, but previously it had been believed that one type would be responsible for all the cases in one epidemic, and another type for all the cases in another epidemic. Among 273 cases in seven localized epidemics, 41% were influenza A, 16% were influenza B, 1% were A and B mixed, and the remaining 42% represented one or more new types, as yet undescribed.

So plans are under way to prepare experimental vaccines for three influenza types, instead of just one, for next winter's studies.

*Science News Letter, March 29, 1941*

**War Causes Curtailment**

**W**AR is crippling much of the work in foreign scientific laboratories supported by the Rockefeller Foundation, and has totally wiped out some of the institutions where it was being done, Mr. Fosdick reported. The Foundation has had to close its Paris office, and has moved its Shanghai office to Manila. A temporary office was opened in Lisbon.

Part of Mr. Fosdick's statement reads like the roll-call of an army in retreat: "Our personnel has had to be recalled from Egypt where work was being carried on in malaria and schistosomiasis; from Turkey where we were engaged in sanitary engineering; from Rumania where scarlet fever studies were being conducted; and from Hungary, which was a station for influenza research. However, Foundation personnel is still operating on the Burma Road, in India, in South China, in the Belgian Congo, in Uganda (Central Africa), in Spain and Portugal, and of course in Latin America."

Wherever the Nazi boot has trodden, it has crushed all universities that have resisted *Gleichschaltung*. Their lecture

halls have been closed, faculties sent to concentration camps, students imprisoned and many of them shot.

"The condition of university life and standards on the Continent is now little short of appalling. Due to flight, imprisonment or disappearance the number of professors in institutions has been reduced by at least 50 per cent. Jewish professors in France were discharged as a result of the September decrees issued from Vichy, and similar action has been taken in other countries under German domination with the exception of Denmark.

"Similarly in the three Baltic states—Lithuania, Latvia and Estonia — which were absorbed by Russia in June, 1940, the process of converting the universities into Soviet institutions has proceeded rapidly. More than half the professors have been removed from their positions and many of them have been imprisoned or have disappeared."

*Science News Letter, March 29, 1941*

**\$5.00 Down Buys an Aristo WATERPROOF The Watch for Practical People**



No. 317—List \$31.50      No. 217—List \$34

- The following distinctive features:
1. Waterproof case is a practical protection for the movement against all foreign matter; Ordinary dirt and dust, chemicals, perspiration. Protects the movement from accidental duckings.
  2. Excellent timepiece of 17 jewel Aristo proved quality. Scores of Science News Letter satisfied customers.
  3. Shock-resistant. Latest shockproof feature protects the delicate balance staff and jewels against hard knocks and falls.
  4. Beautifully finished case of solid stainless steel. Not affected by perspiration. Genuine durable pigskin leather strap and stainless buckle.
  5. Anti-Magnetic balance wheel and hairspring eliminates all influence of motors, electrical and magnetic fields.
  6. Sweep-Second hand shows the seconds and 1/5th seconds clearly for accurate reading and for test timing without stop watch feature. Radium dial for night reading.

**1 YEAR GUARANTEE**

ARISTO IMPORT CO., Inc. 630 FIFTH AVENUE Dept. L3 New York City  
Send following ARISTO Waterproof watch at special price:

- No. 317 for Men     \$23.50 on Time     \$22.00 Cash  
 No. 217 for Ladies     \$25.50 on Time     \$23.80 Cash  
 Check inclosed     Send C.O.D.

Name.....  
Address.....

Send above checked watch on your time payment plan of \$5.00 down and \$5.00 a month.

Employed by: .....Age.....  
Address .....