

# Do You Know?

With an artificial heart-lung machine, scientists can keep amputated limbs alive for 24 hours or longer and so study production of *white cells* by bone marrow.

Gears now made of powdered metals can be subjected to 300 tons of molding pressure.

The sharp reduction in the food supply for fish caused by the DDT killing of insects is only temporary.

## METEOROLOGY

### Tropical Storms Predicted Soon

► ABOUT THREE tropical storms, from which full-fledged hurricanes develop, may possibly form before the middle of September, the U. S. Weather Bureau's Miami office has predicted.

Two of them are predicted to develop east of the Lesser Antilles or near the Bahama Islands, and one of these is forecast to move northwestward toward the South Atlantic states or the Gulf states. The other, the Weather Bureau predicted in its "hurricane probability" forecast issued for the first time this season on an experimental basis, should recurve northward into the Atlantic Ocean without striking the U. S. coast.

Development of one storm in the Gulf of Mexico appears probable, the long-range weather experts predict.

The experimental forecasts are based on current 30-day weather forecast and historical data. In the past 70 years, the period of mid-August to mid-September has had more tropical storm activity than any other 30-day period. The average number is three storms, and the record number is eight.

During this period there have been at least two tropical storms every year since 1941. The most favored areas of formation are normally the Lesser Antilles and the eastern Atlantic, but more than half these storms remain at sea.

Science News Letter, August 31, 1957

# Questions

**AGRICULTURE**—What is one reason for witchweed being so difficult to control and eradicate? p. 133.

**ASTRONOMY**—How are gravitational contraction and a star's "age" related? p. 131.

**CHEMISTRY**—What is the name of the synthetic glue that has a strength of 8,000 pounds per square inch when cooled close to absolute zero? p. 130.

**MEDICINE**—When was chloroquine first synthesized? p. 139.

Photographs: Cover, Convair Division of General Dynamics; p. 131, Science Service; p. 133, Applied Radiation Corporation; p. 135, United Aircraft Corporation; p. 138, The Bakelite Company; p. 144, Fiber Bond Corp.

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