

## SUN RAYS FOUND WEATHER GUIDE

Long-Range Predictions  
Based on Energy Received  
By Earth.

By Science Service

WASHINGTON, March 1.—Long-range weather forecasting based on accurately made measurements of variations in the radiant energy received by the earth from the sun, are now practicable, Dr. Charles G. Abbot, secretary of the Smithsonian Institution, declared here yesterday in the Twelfth Hour lecture.

Dr. Abbot told of successful trial forecasts made by himself during recent years. He predicted rainfall in the Tennessee valley during a given three-months period would be between 84 per cent and 87 per cent normal. As subsequently measured during the period covered, it was actually 87 per cent normal.

On the basis of what appears to be a general tendency for the weather in a given locality to repeat itself about every 23 years, Dr. Abbot made what might be termed forecasts after the event for a number of American cities, and compared them with the records of actual weather.

### Great Droughts Predicted

Finally, for the farther future, Dr. Abbot predicted that great droughts in the Northwest in the years 1975 and 2020 will result in serious lowering of the water level in the Great Lakes.

As background for so bold an undertaking as the forecasting of weather on the earth by a study of conditions on the sun, Dr. Abbot reminded his listeners of the sun's enormous power as a radiator of free energy.

But this radiation is not steady and unvarying. Dr. Abbot has identified not less than 14 cycles, or rhythmic cycles of ups and downs, which the instruments maintained in three different parts of the earth by the Smithsonian Institution have measured in solar radiation.

### Action of Sunspots

As one fairly direct cause of departure from the average, Dr. Abbot called attention to the way sunspots operate. Each sunspot pours out a great conical spray or jet of electrically charged particles, like a stream of minute bullets from a gigantic machine gun. These sweep in vast circles as the sun makes its 27-day revolutions on its axis. These streams of particles have a scattering effect on the light that strikes them, so that when one sweeps across the earth there may be a drop of from one per cent to as much as five per cent below normal in the day-to-day radiation received on the earth.

In conclusion, the speaker suggested the desirability of adding half-a-dozen more solar observatories to the three now maintained by the Smithsonian Institution.

## TWO ARE VICTIMS IN HOLDUPS HERE

As he stopped for a traffic signal at Rural st. and Southeastern ave. last night, Donald Rutherford, operator of a filling station at 4014 Southeastern ave., agreed to give two men a lift for a dollar.

He drove them to 10th st. and College ave., where they forced him out of the driver's seat and drove out near Ft. Harrison. There they took \$8 from him, shoved him out of his car and drove away.

Max E. Farquer, 1918 Dexter ave., was in his garage changing the license plates on his car last night when a man came up behind him, pulled a revolver and took \$4 from his billfold.

## TWO PERSONS INJURED AS ENGINE HITS AUTO

Two persons were in a fair condition at the City hospital today after they were injured last night when a locomotive struck the car in which they were riding at the Monon railroad crossing on 25th st.

The injured were the driver, Arthur Salladay, 31, of 375 E. Emerson ave., and Edna Becker, 38, of 120 E. 30th st.

Mr. Salladay told police that the crossing lights were not working. Watchman H. C. Wilson said they were.

## Russians Using Onion Paste To Treat Badly Wounded

By Science Service

BALTIMORE, March 1.—Promising results with onion paste used as a dressing for infected wounds are reported by Dr. I. V. Tropovsev and Dr. A. G. Platova, of the Tomsk State University and the All-Union Institute of Experimental Medicine, U. S. S. R. In the forthcoming issue of the American Review of Soviet Medicine, published here.

The experiments with onion paste as a weapon against infection and an aid to healing of wounds followed reports by Dr. B. Tokin, that the essential oils of onions, garlic and other certain strong-scented vegetables contain substances that kill bacteria, protozoa, and even larger organisms like yeast cells and eggs of certain lower animals.

The bacteria-killing substances are called phytoncides. They have not yet been identified chemically, but are extremely volatile, so that the paste has to be made immediately before use. The preparation consists simply in grinding the onion or a portion of it after the dry leaves have been removed. The paste is then put into a glass dish with a diameter equal to that of the wound and is applied so that the paste does not come in contact with the wound, which is exposed only to the onion vapor.

Vaporization, as the treatment is called, is done for 10 minutes, usually in two five-minute intervals with a fresh onion paste each time.

### Speaks Here



## THEN you were at his side—

COL. ALBERT F. CHESHAM, Chicago, chief secretary of the central district of the Salvation Army, and Mrs. Chesham, will speak in Indiana this week-end. Col. Chesham will speak at the United Salvation Army services Friday night at the Fountain Square hall, at the Pendleton reformatory Sunday morning, and at the Citadel in Indianapolis Sunday night. Mrs. Chesham will address several women's organizations.

### Chosen DeMolay '44 Sweetheart

This year's DeMolay sweetheart is Miss Patricia Purdy, daughter of Mrs. Myrtle Purdy, 2228 Langley ave., who was crowned at the recent DeMolay sweetheart dance at the Scottish Rite cathedral. Miss Purdy was selected from a group of eight contestants, all members of Job's Daughters. She represented Bethel 9. She is a senior at Technical high school.

### SCHOOLGIRL FINDS WAR WORKER'S BODY

HAMMOND, Ind., March 1 (U.P.).—An inquest was ordered today for Friday into the death of John Dahlberg, 64, war plant worker, whose body was discovered on a driveway in an exclusive residential district yesterday by a schoolgirl.

Police said wet clothing indicated the man might have been thrown or jumped into the nearby Little Calumet river. The body was marked by bruises and the officers were tracing Dahlberg's movements of Tuesday to determine who had last seen him alive.

Officers rescued him from the river in 1940. At that time, Dahlberg said he had fallen into the stream.

### FORMER WILLKIE TEACHER IS DEAD

Times Special

ELWOOD, Ind., March 1.—Miss Mary Elizabeth Cox, Elwood school teacher for 33 years, who numbered Wendell L. Willkie among her pupils, died yesterday at the Mercy hospital. She was 75.

A native of Madison county, Miss Cox began teaching when she was 16. After a year, she attended Indiana university and then came to teach in Elwood.

Services will be Friday in the First Baptist church.

### HOME-MADE CHEESE KILLS BABY, POISONS 4

SOUTH BEND, Ind., March 1 (U.P.).—Paulette Szalay, 15-month-old daughter of Mrs. Christine Szalay, died yesterday and her mother, two aunts and grandfather were reported in serious condition as the result of food poisoning.

Coroner T. C. Goraczewski said the poisoning was caused by eating headcheese made by the family last week and improperly refrigerated.

### FALL FATAL TO WOMAN

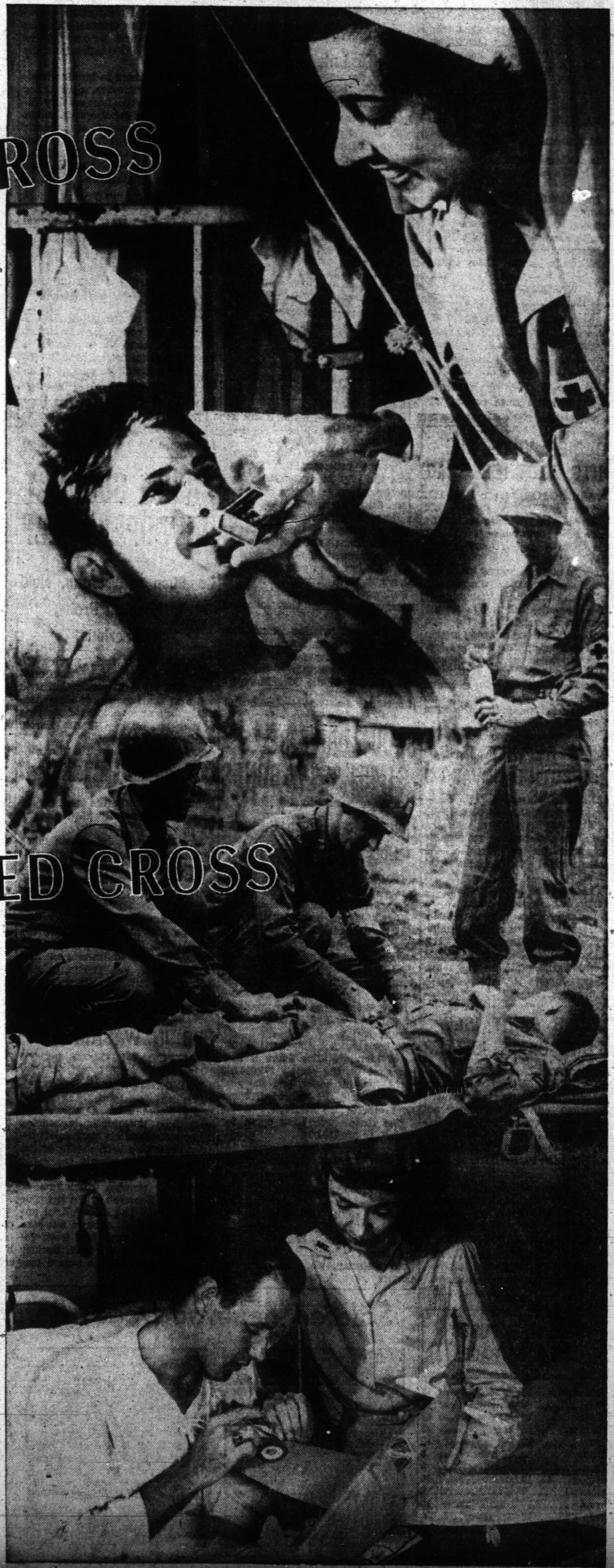
Mrs. Anna Brantlinger, 1606 Ludlow ave., died yesterday at the City hospital where she was taken on Jan. 10 after she fell at her home and broke her leg. She was 70.

## YOUR gift will help RED CROSS to help him—

It takes money for this far-flung service which is always with him. You can help Red Cross do a better job by being generous in the 1944 Red Cross War Fund Drive.

1944 RED CROSS  
WAR FUND  
MARCH 1-31

Published in the interests of the American Red Cross by  
**L. S. Ayres & Company**



Compost is built up in when decomposing soil. Some for contains the humus and plant materials to complete fertility and satisfactory manure. Much fertilizer and over the pile up.

The ideal be built up in so that it is sides. It should four feet wide.

Material and soil be sprinkled with a mixture about six inches composed of cuttings.

### WARTIME

More  
A

WASHING  
brushing up  
types have  
bristles for

hair brush  
reclaimed  
of real bristles  
per cent of  
1942. Paint  
can be made  
of bristle  
special  
from the  
product  
board.

Rope  
line has  
reported as  
"house  
problem" by  
private  
group. Since  
army, navy  
merchant  
airline are  
having diffi-  
requirements  
anything  
clothesline for

The war  
no plans to  
for civilians  
work out  
share-the-  
clothesline

Comes the  
son and you  
fresh tang  
department  
over the pro  
lion boxes  
have gone  
each year  
grade restrict  
bland syrup  
able for a  
taining 75  
inal vitami  
stored in the  
terioration,  
juices or co  
be kept in g

More than  
gone out to  
make the  
However, ev  
soon run ou  
to turn in  
items and  
Dismiss  
proved char  
are being co  
to keep war  
as long as

### Pastries

CHICAGO  
of the future  
the grocery  
bake pastry  
berries or o

Not  
has entered  
but Fred  
Chicago  
taken what  
toward froz  
morrow's gr

At the time  
1938, Chef F  
country from  
vitality inter  
method" of  
overnight