

SPECIAL WARNING OFFICES
SET UP FOR HURRICANES

Weather Bureau Has Trained Observers on Duty
24 Hours Daily, System Founded in 1831
Has Saved Many Lives

WASHINGTON, D. C.—On July 1, there went into effect a reorganization of the hurricane warning service maintained by the United States weather bureau. The reorganized service is expected to prove the most efficient yet furnished and rich dividends in the way of saved life and property should accrue. Special warning offices have been set up at Jacksonville, Florida, and at New Orleans. Trained observers will remain on duty 24 hours a day. There are many other observers at other points but Jacksonville and New Orleans will be the chief clearing points.

Use Teletype System
No hurricane can start in the region of the Caribbean sea without warnings being flashed. A teletype system has been installed which will carry warnings all along the Gulf coast. During the five summer and early autumn months which are regarded as the hurricane season, there will not be an instant when watchers of the United States government are not on the lookout, prepared to notify mariners at sea and dwellers along the coast line of the approach of the destructive disturbance.

Bringing the hurricane warning service to the increased state of perfection marks another step in a history of more than a century of efforts to guard against these storms. Capt. William Reid is credited with being the first to attempt some system of warnings. Stationed on the Island of Barbadoes in 1831 he began studies of the actions of hurricanes with the idea of working out some system of forecasting their movements. In 1833, he published a book on the Law of Storms which, to this day, is highly regarded among meteorologists. In 1847, he worked out a warning system. It is especially notable that work

of such importance should be carried out alone. However, the layman, even the mariner, used to be highly skeptical of any one's ability to forecast the weather. It is probable that most people who knew of Capt. Reid's work had no confidence in his findings and of course, facilities for transmitting warnings were few and feeble in those early days. The fact remains that it was not until 1870—nearly 40 years later—that another pioneer in hurricane forecasting appeared.

He was Father Benito Vines who for many years was connected with Belen College at Havana. He became director of the institution. Father Vines had witnessed the tremendous havoc wrought by tropical hurricanes in Cuba and although a keen scientist and scholar, his interest probably was largely humanitarian. The first authenticated date on which Father Vines issued a warning was Sept. 11, 1875, but Edgar E. Calvert, who has made a study of the history of hurricane forecasts, thinks he probably issued earlier warnings. It is certain Father Vines was the first to have forecasts upon both the upper and lower clouds and the first to note that the place of formation and the direction taken by these disturbances changes with the advance of the season.

Lacked Funds
The American Congress in the same year that Father Vines began his work, authorized establishment of a national meteorological service, but the signal corps of the army, which was to undertake the work, did not become well enough organized to give effective hurricane warnings as early as Father Vines. It was not until August, 1873, that the first warning of a tropical hurricane was disseminated by the United States signal corps and this storm had advanced out of the land,

tropics before the short warning was given. It was the special effort of Father Vines to lengthen the warning time. It must be remembered that there was no radio in those days and not nearly so complete a cable and telegraph service as at present. With a minimum of information to assist him, Father Vines worked out a system by which he could know of the approach of a storm, determine what direction it was coming from, and what its path would be.

The warning service had scarcely been started when the signal corps ran out of funds to pay cable tolls on what it could learn from West Indian observers. The cable companies did co-operate by allowing reduced rates of only one-third to half regular charges but even with this advantage reports were not regular. There was a brief resumption in 1881, but again there was doubt raised as to the legality of spending federal funds for maintaining stations and observers outside the United States. Hurricanes do not recognize political boundaries and the importance of the warning service soon was impressed upon Congress and some funds granted.

When the war with Spain came in 1898, it became imperative with our large naval squadron in West Indian waters, to have hurricane information and so a hurried arrangement was made for the establishment of stations at strategic points. The war was of such brief duration that no hurricane attacked the fleet, but, after the war, the service was extended as American interests in the Caribbean had increased and there was much more concern with tropical affairs.

Warning By Radio
The largest single factor in the improvement of the hurricane warning service has been the introduction of radio. A hurricane travels at speed. It has a whirling motion, but the whole vast eddy of air also is sweeping along. When ships in the path of the disturbance receive warning in time, they can steer out of the path of the storm. Before ships were equipped with radio they could only be warned by being close enough to shore to observe warning signals displayed on

TOMORROW IS CIRCUS DAY, WITH
SHIVERY, BLISSFUL ANTICIPATION

There's Only One Thrill on Circus Day, that of
the little-boy-you-were Carried Over to
the Man-you-are.

Tomorrow is circus day again. There's only one thrill that the little-boy-you-were carried over to the man-you-are, and that's the shivery, blissful anticipation of circus day. If you have children of your own, you deck them out in their best clothes, and take them down to see the "Big Show." If you are single, borrow somebody else's youngster to take you to the circus.

That spirit will be abroad tomorrow, when the Al. G. Barnes Circus, with its trumpeting bands, red wagons, spangles, and pink lemonades, invades Fredericton, Friday. The special steel railroad equipment will start to arrive about dawn over the Canadian Pacific railroad from St. Stephen.

Consequently, no end of youngsters will go to bed to-night with the alarm clock set for some unearthly hour, and will dream of a seat in the very front row, with the prettiest bare-back riders and aerialists blowing him kisses from the back of a galloping horse, or out of a trapeze swinging miles high in the air. But the sound of the alarm clock will dispel all such startling happenings, and at the first streak of dawn there is bound to be a goodly gathering of youngsters and grown-ups around the railroad yards, as almost everyone knows the circus has grown to such enormous proportions that it is impossible to hold the old-time street parades any more. But the unloading of the brightly-painted railroad cars of their burdens, the herds of elephants stepping from their side door Pullmans, the hundreds of horses, yaks, camels, zebras, and cage after cage of wild animals promises to be a real free show that will not be overlooked.

Enormous new displays have been introduced on the Al. G. Barnes Circus this year. Over 200 acts will be shown. A magnificent extravaganza, entitled "The Fiesta of the Rio Grande," depicting the charm and gaiety of old Mexico, serves as a prelude to the circus performance proper. Hundreds of people take part in this elaborate and colossal presentation, yet it is but one of the many features with the show.

Mable Stark Here

Mable Stark and her Royal Bengal tiger display, in which seventeen of these ferocious animals go through their paces in the big steel arena; Captain Terrell Jacobs in another arena with nineteen lions and lionesses; Walter McLain and four herds of performing elephants; Robert Thornton and his liberty horses; The Bernetti Family of riders, featuring Maria Bernetti, youngest member of the family, with her backward somersaults from the back of one galloping horse to the back of another; The Great Waltieres Troupe; The Canasrelli Family; The Escalante Family; and the Dazzling Burbans—present this season one of the greatest circus performances ever witnessed. Little folks will be glad to hear that the addition of a score of European clowns has increased the fun-making contingent to an even sixty.

Each season the Al. G. Barnes Circus exhibits in more than 200 cities. It travels from its winter quarters in Baldwin Park, California, and makes a transcontinental tour from coast to coast. It covers more than 20,000 miles, and in twenty-five years, has grown to be one of the world's largest amusement organizations. Every day more than 2,000 meals are served in the spacious dining tent. Its policy has always been to see just how much can be given to its patrons, and the enormous seating capacity in the big main tent enables the management to give so much for so little.

There will be two performances given here, starting at 2:00 P.M. and

8:00 P.M., with the doors opening an hour earlier to enable visitors to view the menagerie and listen to the music of Professor Charles Redrick's military band in a program of interest. General admission tickets, and individual, numbered, grand stand chairs will be on sale circus day at A. J. Ryan, Drug Store. On the show grounds at Queen's Square, the white ticket wagon will be open all day for the grand stand chairs, and the red wagon, with general admission tickets, will be open at the same time the doors to the big tent open.

NOTICE OF SALE

To Frank W. Rowan of the City of Fredericton, in the County of York, Province of New Brunswick, tailor, and Frances L. Rowan, his wife, and to all others whom it may in any way concern.

Notice is hereby given that under and by virtue of the power of sale contained in a certain Indenture of Mortgage bearing date the 17th day of December, A. D. 1927, and made between the said Frank W. Rowan and Frances L. Rowan, his wife, of the first part, and Grace L. Cooper, of the City of Fredericton aforesaid, wife of Frank L. Cooper of the second part, and duly recorded in the York county records in Book 203, pages 643-645 under number 80211, there will for the purposes of satisfying the monies secured by the said indenture of Mortgage, default having been made in the payment thereof contrary to the provisions of the said Indenture, be sold by public auction in front of the City Hall, in the City of Fredericton, in the County of York, on Monday the 26th day of August A. D. 1935, at the hour of twelve o'clock noon, Atlantic Standard Time, the lands and premises described in the said Indenture of Mortgage as follows:

"All that certain piece or parcel of land with the appurtenances, situate in the City of Fredericton in the County aforesaid and lying on the northerly side of Shore Street, beginning at the westerly corner of a lot occupied by John Gough, thence northwesterly along Shore Street sixty feet, thence northeasterly at right angles to Shore Street aforesaid one hundred and forty-two feet or until it strikes Whittaker's line, thence southeasterly along said Whittaker's line sixty-two feet, thence along the line of the said John Gough one hundred and forty-two feet to the place of beginning. Being the same lands and premises conveyed to Henry Rowan by R. M. Smythe, H. G. Smythe and A. F. Shore by Deed dated December 15th, 1881, registered in Book 72, page 593 under official number 32258."

Together with all buildings and improvements thereon and the rights and appurtenances to the said lands and premises belonging or pertaining.

Dated at the City of Fredericton, County of York, this 17th day of July, A. D. 1935.

(Sgd.) Grace L. Cooper Mortgagee
(Sgd.) E. Allison MacKay Solicitor for Mortgagee

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Two Tins **25c**
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"Costs so little...Tastes so good"

Special
SCHWARTZ PREPARED MUSTARD
9-ounce Table Jar. Per Jar **10c**
"Adds to the Flavor of Cold Meat"

Special
KELLOGG'S CORN FLAKES
Three Packages **23c**

Special
Fancy PINK SALMON
1's Two Tins **25c**

Special
STRAWBERRY JAM
8-ounce Two Jars **25c**

HAWES FLOOR WAX
1's Per Tin **47c**

CLUB HOUSE OLIVES
4 1/2-ounce Per Bottle **15c**

GILLETT'S LYE
(Eats Dirt) Per Pkg. **12c**

RICE (Rangoon)
Per Pound **5c**

Old Dutch Cleanser
Per tin **11c**

COW BRAND SODA
1's Per Package **10c**

MAZOLA OIL
1's per tin **30c**
2's per tin **53c**

Montserrat LIME JUICE
Pints Per Bottle **49c**

SANI-FLUSH
Per Tin **25c**

CALAY SOAP
Four Cakes **25c**
The Soap of Beautiful Women

CERTO
8-ounce Per Bottle **35c**

Comeau Chicken Haddie
1's Per Tin **13c**

GRAPE-NUTS FLAKES
Two Packages **25c**

SHU-MILK
Per Bottle **25c**

CATELLI READY-CUT MACARONI
10-ounce Per Package **10c**

SWANSDOWN CAKE FLOUR
Per Package **38c**

WALNUTS
YELLOW HALVES Per Pound **45c**

Imperial MUSTARD
1/4's Per Tin **15c**

NATURE'S BEST GOLDEN WAX BEANS
2's Per Tin **25c**

NATURE'S BEST FRUITS for Salad
2's Per Tin **32c**

Now, so continuous is the service, a ship is at all times in touch with the warning agencies and can be advised from what point on the horizon a storm is approaching, its general direction and speed. Coastal towns in the path of a hurricane can not of course, move out of the way, as a ship can, but preparations can be made. Everything can be battened down and special precautions taken such as the evacuation of fragile structures like to collapse in a severe blow.

Works Two Ways

The radio service works two ways. Not only are the ships in a hurricane zone given radio warning, but every ship is itself a lookout. There has been a good deal of improvement in the education of mariners on meteorological matters and some of the larger ships carry their own experts. These can report to shore stations and to other ships observations of conditions. Last year, for instance more than 21,000 separate observations were received from ships in the southern portion of the North Atlantic, the Gulf of Mexico and the Caribbean Sea.

Until July 1, hurricane warnings had been broadcast from Washington on the basis of news received from the tropics. The reorganization, which provides for New Orleans and Jacksonville as joint headquarters, instead of Washington, will, it is expected, save time, and time is all important in the warning of the approach of hurricanes. The weather bureau was given an additional appropriation of \$80,000 for the extension of the service and it is expected that this will be several times repaid in each hurricane season by the improved and extended system of notification.

There is wide co-operation in modern weather service. The naval station at Arlington makes broadcasts on weather conditions twice a day, and these are picked up and relayed by other naval stations as the world is constantly alive with radio data on the weather on all the seven seas. Coast guard stations of the United States also co-operate and there is an increasing amount of co-operation from the weather, naval and maritime services of other nations. Seamen and landmen both are learning that the weather is not to be trifled with.

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