THE REPORT OF THE WAR OWN AUTHORIES IN THE

Skin Sufferers-Read!

THE TORNADO. It Occurs at the Centre of a Great

Storm Wheel.

Storm Wheel.

The place where a tornado will strike cannot be foretold. A knowledge of their causes will not, therefore, take the place of presence of mild and absence of body when the "twister" actually comes roaring along. But, nevertheless, the newly accepted explanation of the tornado as set forth in a paper by Mr. Herbert. Quick, will be interesting.

These dreadful storms occur near the centre of the moving area of low barometer called a cyclone. This cyclone is a revolving sheet of wind rotating in a circle from 500 to 1,000 rulies in diameter — and people in some districts experience a cyclone many times a year. All their general storms are cyclones.

The wind blows from every direction towards the centre of these cyclones as inclined.

The wind blows from every direction towards the centre of these cyclones, spirally, and with an upward draft. The south half of the cyclone is warm. There are always great bodies of cold air settling down from the upper regions. The warm air from south and west, blowing towards the centre of "low," forces itself under the weight of cold air. A big southerly wind will drive itself under the mass of settling cold air like a great weight.

Here we have the conditions favorable for a tornado. The cold air is heavier than the warm air, and ought to be at the bottom next the earth. The warm air is lighter, and should be on top, while the strong south wind is driving itself farther and farther under the great settling shelf of cold.

Something has to happen. This

cold.

Something has to happen. This something takes the form of great bursts of the warm air up through the cold. The phenomenon is, on gigantic scale, much like the bursting up of bubbles of steam through the water in a boiling kettle. The warm air begins to boil upward in great bubbles. At the bottom of each there is a strong updraft. What takes place is exactly like the whirlpool in the bottom of a bath when the water is running out. If the air were perfectly quiet, no whirlpool would fectly quiet, no whiripool would form; but if it has only a little whiri-ing motion, the whiri is communicat-ed to the spot where the draft is. The whirl grows stronger and stronger. In the bath it gets so strong that the water is thrown outward and a core of air runs down to a point in it. And the air whirlpool acts in the same way, only upward instead of downward.

ward.

When the air behaves thus, a tornado is formed. The whirl begins in the spiral direction of the general storm. As the air of the tornado whirls more and more swiftly, the air is thrown outward and a core is formed which is almost as empty as the core in the bath is of water—that is, a partial vacuum is set up in the heart of the tornado.

a partial vacuum is set up in the heart of the tornado.

The outer shell of air is so dense that all the air sucked into it is held there, and not permitted to get through into this core. The sudden upburst of warm air into the higher cold air forms rain, and a heavy downpour usually occurs. It also liberates more heat, and this increases the ferocity of the disturbance. It generates an immense amount of electricity, and there is vivid lightning and crashing thunder.

On it goes until the equilibrium is restored. The velocity of the whirl restored. The velocity of the whirl restored are encourse that stone walls.

becomes so enormous that stone walls

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are crimbled, fron and steel houses are tossed about like feather, houses are demolished, and whole communities scaurged and terrified.

Then follows a cool wave. The great body of cold air has accomplished its object, and reached the ground. The hot air has gone up and become cooled.

ground. The hot air has gone up and become cooled
These storms occur from 50 to 250 miles ahead of — that is south and east of — the centre of the low. They do not often occur. Usually the balance is restored without such violence. So they cannot be predicted. The only thing that can be said 's that in certain localities the conditions are favorable for severe local tions are favorable for severe local

Gentle Art of Spelling.

"I can spell," announced Roy, aged five, at the breakfast table, as he took another biscuit. "These are made out of d-o, do."

"But that doesn't spell dough," his matter a new road smilingly.

"But that doesn't spell dough," his mother answered smilingly.
"Aunt Manda says that's the way to spell 'do," insisted Roy.
"Dere's two kinds o' do, chile," said the old colored cook, who came in just then with another plate of biscuits. "do' what you shets and 'do' what you eats."

Generous Uncertainty. "What is your dog's name?"
"Harold Reginald," replied Mr.

"Why, that's the name of the young man who calls to see your daughter." "Yes. I arranged it so that when I occasionally express my feelings she won't know for sure which I am talking about:"



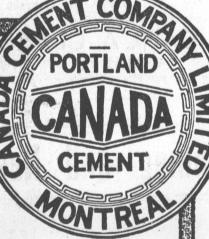
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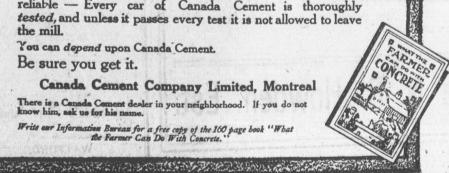
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