Be Your Own Weather Prophet

Be your own weather prophet, the Weather Bureau cannot always make forecasts for definite hours or for particular places. But any intelligent person ought to be able to do that. It is not really difficult, but just a matter that requires a bit of study and observation. If one will study the weather signs that are written plainly in the skies he can predict with reasonable accuracy the weather for his own particular locality from

Such local predictions are based upon atmospheric conditions, as revealed by the color of the sky and the appearance of the sun, moon and stars. This is no new discovery. When the Pharisees and Sadduceer asked Jesus to show them a sign from heaven, he said: "When it is evening, ye say. It will be fair weather; for the sky is red. And in the morning, it will be foul weather to-day, for the sky is red and lowering." These sayings from the New Testament represent correct observations. A red morning implies a moist atmosphere; hence the rain may be expected later in the day. A red evening sky means that the air contains so little moisture that rain within the coming 24 hours is improbable. To explain this paradox, which has to do with condensation of moisture into droplets and also with certain principles of optics, would take too long, but it is entirely accurate.

If at evening the sky along the western horizon is yellowish or greenish, it means that there is little moisture in the air, and that the next day will be fair. But if at evening the sky is overcast with a uniform gray, the atmosphere aloft is satur ated with moisture and the next day is likely to be rainy.

The air is always heavily laden with dust, upon which moisture condenses. If there is enough moisture in the atmosphere, droplets are formed and fall as rain. Rain dries the air by taking water out of it and at the same time cleans it of dust. It is on this fact that the old saying "Rain before seven, clear before eleven" is based; for early morning rain often clears the atmosphere of

Much dust, or smoke, in the atmosphere makes the sun look red, and the color is deepened by the presence of moisture. When the air is heavily charged with dust particles that have become laden with moisture, you the sun as a fiery red ball. Thus a very red sun obviously suggests a very red sun obviously suggests a promising rain. There is truth in the old saying, "A

water, causing the weather to clear.

red sun has water in his eye." Notwithstanding a very common impression to the contrary, the moon has no influence worth mentioning upon weather, but its appearance depends upon conditions of the atmosphere, and hence affords useful indications:

"The pale moon doth rain, The red moon doth blow. The white moon doth neither rain

nor snow." Much wisdom is wrapped up in these lines. For a pale moon implies thin clouds, such as run ahead of a general rainstorm. A red moon suggest a damp atmosphere, warning of a storia, and a white moon indicates

dry air and absence of clouds.

A clear, or white moon is commonly understood to give warning of frost. Nor is that without good reason, inasmuch as the earth's surface heat radiates rapidly into a cloudless sky. Clouds interfere with this rapid loss of heat acting as a blanket, and so, by conserving it, tend to prevent

"The higher the clouds the finer the weather," is another old saying in which there is truth. It is not to be accepted, however, without modification. Small, high "woolpack". clouds do not contain enough moisture to produce any considerable rain or snow. But a large woolpack often develops a thunderstorm. If formed during the morning, it is likely to increase in size in the afternoon and yield a downnour.

The cirrus clouds, highest of all, composed of ice needles and floating nine or 10 miles above the earth, are forerunners of storms, being carried far ahead of the rains. Hence the saying "Mackerel scales and mares' tails make lofty ships carry low sails."

Often the base of a rain cloud envelops mountain peaks and ridges. When you see clouds resting on a mountain top, it may be accepted as an obvious warning of coming rain -usually not more than a few hours away. The breaking up of mist on a mountain top may be accepted as a

Would you forecast the next day's weather from observation of the stars? It is often easy to do. If they look dim, there must be much moisture in the atmosphere, promising rain.

accepted it as a sign that the great sun, the shower that gives an evening rain may be expected for the shower it was at an end. Presumably it was in the evening, for a rainbow in the morning would have offered no such the place of observation, and thereby rain can come from that shower, for promises a clearing of the sky. In already it is receding. morning would have offered no such other words an evening rainbow, be- Smoke from a chimney will afford The amateur weather prophet of-

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The section are Water Will at the attention.

non always is seen on the the rain is failing and the sun shining a rather compact body and gradually ati Noah when he saw the rainbow, side of the observer opposite to the simultaneously. If seen to windward,

descends, the obvious conclusion is

ing seen in the east, foretells fair you an indication of coming weather. ten may obtain some advance informtere in the temperate zones | weather for the morrow. On the oth- if it rises high, disperses and soon ation from the way in which the disappears, the inference is that the clouds behave. If they gather rapidly that the rainbow (a purely optical. The rainbow can appear only when other hand, it floats slowly away in squall of small extent and short dur- in diameter you may safely infer that Phone 1358,—dec15,3i

A bright light seen in a fog at night hand, it enlarges, evaporation is inthat the particles composing it are is encircled by a colored ring, red on dicated and you may confidently prethe outside. On a misty night the moon has such an appearance. In phecy the next time you see a halo either case the phenomenon is due to around the moon. pass through suspended droplets of moisture. The larger the droplets,

to east and hence nearly all storms ways in the west, indicates an apair is dry and therefore that there is a weather disturbance of quick action moon.

to see our stock. L. G. HAR- special attachment is used. Attached no near prospect of rain. If, on the is indicated—a thunderstorm or a Hence, if you see the ring shrink SANT, G. W. V. A. Building. to the bottom of the lower receptacle

Arrived just in time for Xmas the smaller the ring that encircles the French Ivory. It will pay you to see our stock. L. G. HAR-

hat Cocoa

Comes From

another, has increased all over the The pods, about eight inches ng, grow out of the trunk, and are red, yellow, black, and purple, according to the season. There are twenty or thirty pale red beans inside each pod, embedded in a soft white pulp. Cocoa-groves are never planted solely with cocoa-trees.

Although it grows best in hot couned from the sun, and for this purose forest trees are planted in the roves. Some of these grow to a great neight and have a tufted head like a natural sunshade. These protecting rees are called "Cacao Madre," or

Russia is Opposed to the League

COMMUNIST LEADER SAYS THE UNITED STATES IS REALLY THE

MOSCOW, Dec. 8 .- Addressing the Moscow District Communist conference last night, A. I. Rykoff, President of the Council of Commissars, declared that Russia was prepared to abolish the Red Army and scrap all ammunition factories and war industries, provided the Bourgeois countries did likewise.

M. Rykoff characterized the League of Nations as an instrument of war and subjugation, and not of liberation. The European Powers in seeking to get Russia into the League wished her to make political capitulations in the East and economic sacrifices in the West. The Locarno agreements were as useless as the League to secure peace for the world. It was contended by M. Rykoff that the United States dominates Europe.

"Although the United States does not interfere in European affairs, and is not a member of the League of Nations," he said, "she is really the boss of post-Versailles Europe. No nation can enter into a treaty with another without the acquiescence of the United States. She has twothirds of the world's gold reserves and has captured most of the international markets from Europe. She is the only country in the world able to grant loans, and is the greatest stronghold of imperialism. She enslaves the greater part of the world economically, and Europe is becom ing more and more an American col-

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A novel tool that combines pliers and a hand vise is the recent invention of W. A. Bernard, of New Haven Conn., who has made a life study of pliers. 'The tool is fitted with a thumb screw, which, when backed out as far as it will go provides a pair of parallel jaws for ordinary use around the workbench or the automobile.

Often, the user of pliers finds it necessary to hold them in clamped position for several minutesat a time; as, for instance, in filing a key blank to the outlines of another key. A thumb screw lock on this tool makes it possible to retain one or more objects firmly in position after the hand pressure is released. Thus it is esnecially useful where several operations are to be done without the necessity for releasing the work.

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The housing is weighted on one side so that as it revolves, an eccentric or said to insure a more thorough and faster screening or mixing of materials than former methods, where a ationary screen was used.

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A recently invented inst called an "optometer" is claimed measure 1 20,000 inch with exacting The scale itself never is moved touched, but merely is obse through a microscope. To the eye 1 20,000 inch appears to be one teenth of an inch.

The readings are not affected variations in sense of touch or di ences in human skill. In measurinfinitely small parts of an inch. results of this instrument may he lied upon absolutely, the in

The lining of the mules match the lining of the negligee



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