

## SUN'S HEAT TO BE OUR BAROMETER

Weather Forecasts Will Be Possible Months Ahead.

TESTS WILL TAKE YEARS.

Professor Frost, Director of Yerkes Observatory, Predicts That Future Scientists Will Be Able to Tell the Temperature Six Months in Advance—Observe Sun Spots.

Great interest is manifested among scientists as the result of a published statement of Professor Edwin B. Frost, director of the Yerkes observatory, to the effect that it has been determined that the "solar constant" is in fact a variable quantity and that the effect of the change is not appreciable on earth until as long as six months after the change.

For this reason Professor Frost is of the opinion that eventually it may be possible to determine general weather conditions that far ahead—in other words, that careful observations of solar conditions will indicate what conditions may prevail on the earth later.

In addition to the observations made by Professor Frost similar observations have been made by Professor H. E. Kimball for the government at the station on Mount Weather.

In his statement Professor Frost declares that careful observations indicate that the late Professor S. P. Langley placed his estimate for the amount of heat absorption by the earth at too high a figure.

### Professor Langley's Devices.

Professor Frost in his statement comments on the ingenious devices invented by Professor Langley, by which he measured the sun's heat, and on the discoveries of C. G. Abbott and F. E. Fowle, who for the past ten years have been conducting their investigations at sea level and at Mount Whitney (14,500 feet) and Mount Wilson (6,000 feet), in southern California. He goes on to say:

"The most striking result of these investigations is the discovery by Abbott and Fowle that the 'solar constant' is not a constant, but a variable—in other words, that our sun is a variable star, like hundreds and thousands of others in the sky.

"It was nearly ten years ago that these investigators found evidence that the radiation of the sun was not steady from day to day, and ten years of work has been devoted to determining whether these apparent variations were really in the sun or due to errors of observation or to fluctuation in the absorption by the earth's atmosphere. They now feel justified in stating that these fluctuations are real and are in the sun itself, amounting to 5 per cent or more in a period of a week or ten days.

"Observations for sun spots have now been made long enough so that we know that they are more numerous every eleven years, slowly declining from a maximum number to a minimum number about seven years later and then rising again to a maximum about four years after the minimum.

### Importance of the Discovery.

"The importance of this discovery of the variation in the sun's heat is probably obvious to the reader. The inhabitants of the earth are entirely dependent for their existence upon the results of agricultural work, and nothing is more certain than that the radiation from the sun lies at the basis of the principal weather elements in the earth's atmosphere.

"It should not be inferred that a sudden startling change in the sun's radiation produces an immediate effect in the terrestrial temperatures. The earth's atmosphere takes up these changes and gradually communicates them to the earth's surface. How soon and to what degree remain to be investigated.

"Continuous study, extended perhaps over many years, will be required to determine if these changes in radiation can be predicted in advance and if the laws can be determined which govern them. It is evidently a most practical problem, touching the interests of every inhabitant of the earth."

### TRAMPS HAVE NERVE.

When Offered Work on Farm They Indulge in Merry Persiflage.

Within the past fortnight Kansas officials have had calls from twenty towns asking what to do with a surplus of tramps. At Clay Center, Kan., twenty "sons of rest" were loafing in the park. When a farmer offered them \$3 a day to work in the harvest they demanded \$3.50. When that figure was met they demanded \$4. The spokesman for the tramps asked the farmer:

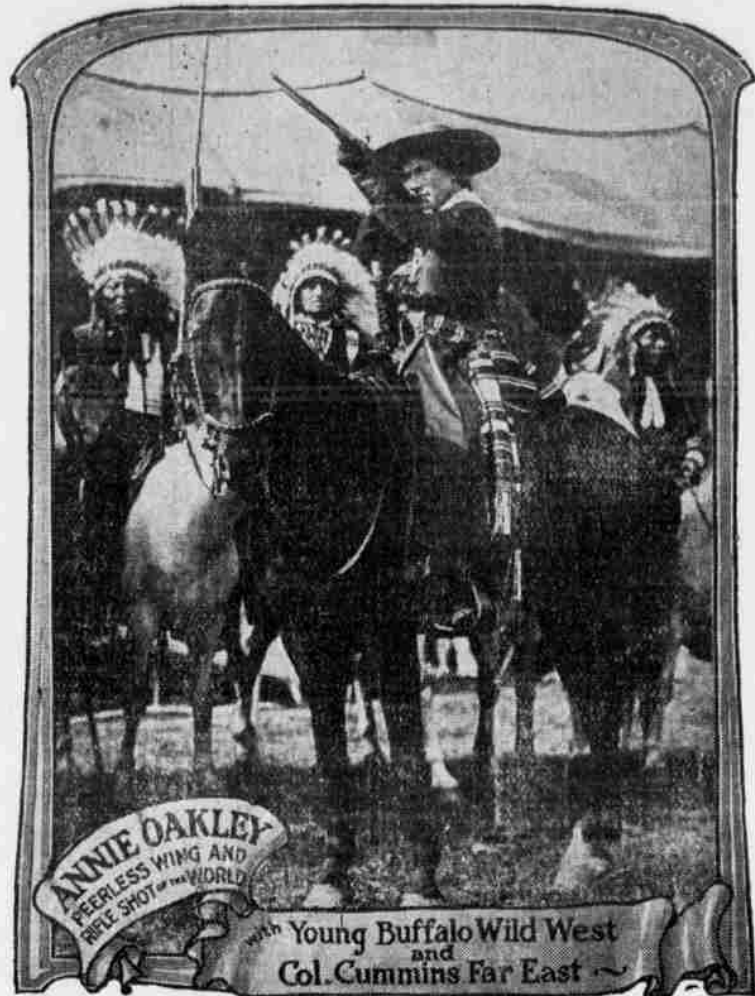
"Is your land rolling or broken?"  
"Rolling," said the farmer.  
"Well, roll it in here, and we'll harvest it."

### Bees Kill Chickens.

Two hundred pullets belonging to W. F. Weems, a poultry raiser, near Porterville, Cal., were stung to death by a swarm of bees. The bees are brought to that district every year during the orange blossom season. After the bees had attacked the chickens they continued down the road and attacked an automobile party.

### ANNIE OAKLEY WITH YOUNG BUFFALO WILD WEST.

Annie Oakley, who will be seen in Honesdale on July 28, with the Young Buffalo Wild West, Vernon C. Seaver's Hippodrome and Col. Cummins' Far East, is one of the very few persons who have won international fame as sharpshooters.



The fact that she is a woman and in the ordinary course of events would not be expected to attain unusual skill in this particular line, makes even more remarkable the distinction that is hers as champion wing and rifle shot of the world.

She is known all over this country and Europe as one of the highest salaried and most entertaining arenic performers to be seen. At innumerable contests and meets she has carried off the highest honors, shooting in competition with men

who were thought to have achieved the nearest thing to perfection possible. She is conceded to be the brightest particular star of her class of performers and is in great demand by managers of exhibitions everywhere.

She has appeared by special com-

### Foster's Weather Bulletin

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WASHINGTON, D. C., July 19.—Last bulletin gave forecasts of disturbance to cross continent July 24 to 28, warm wave 23 to 27, cool wave 26 to 30. This disturbance will include last part of the severe storm period and is expected to cause lower than usual temperatures. Not far from July 28 the storm forces will suddenly increase very much as they did on July 5th when dangerous storms occurred in many parts of the country.

It was remarkable, worthy of particular note, that we selected the very day—July 5th—for the dangerous storms. The only mistake so far this year, in forecasting these dangerous storms was that we did not forecast the exact days of the tornadoes that occurred in Florida and Georgia about July 20, although we had frequently stated that many dangerous storms might be expected in July.

We are now, July 19, at the beginning of a ten days period of dangerous storms and again we hang out our danger signals, warning all to take no risks. Many have written us saying that they desire to go voyaging last half of July and asking us for the best dates. We can not give any dates in this month when it will be safe to go on water and one feels safer at home when dangerous storms are expected.

Next disturbance will reach Pa-

mand before most of the crowned heads of Europe. The late King Edward, himself an expert marksman, after witnessing an exhibition of her skill once, remarked, "The United States should be proud of you."

"Rather, I am proud of the United States, Your Majesty," was the quick reply of the world's champion rifle shot.

Reserved seats for the exhibition will be on sale at J. B. Nielsen's store at the same prices as charged at the show grounds.

This will be a severe storm all the way across the continent but will be most severe on Pacific coast and slope not far from July 28. Temperatures will average lower than usual. Rainfall will average less than usual, but some very heavy rains will occur in small sections.

Hurricanes are expected on the Caribbean sea and the Gulf of Mexico between July 19 and 29 but we are not yet able to give details of these dangerous sea disturbances.

In central valleys most rain is expected near August 1 and 13th and in eastern sections near Aug. 1 and 19. Warmest parts of Aug. will be near 8th and 25th, coolest parts near 3rd and 12th. Storm forces will be less for August than for previous months. Most severe weather near August 4, 12, 26 and Sept. 1.

### WHAT THE "ADS" SAY.

Willis—Do you know that the mine we thought was no good has yielded \$9,000,000 in the past two months?

Gillis—Who says so? Our company?

Willis—No; the prospectus of the company that is promoting the mine next to ours.—Puck.

—Try our Cent-A-Word Column.

### SIDE-LIGHT ON GETTYSBURG

Capt. Frank A. Hubbell, Formerly a Wayne County Man, Tells How Gen. Milroy's Men Helped the Union Army to Success by Their Work at Winchester, Virginia.

Capt. Frank A. Hubbell, who spent his boyhood days in Honesdale, and went to the front in the Civil War from Old Wayne, gives an account in the Yakima, (Washington) Republic, of an important side-light on the battle of Gettysburg. The Republic article follows:

That not all of the credit for the great victory in the battle of Gettysburg, which began 50 years ago today, is due to those men present on that field, but should be shared by those who participated in the contests preliminary to the battle which was the turning point of the civil war, is emphasized by an incident recalled by Capt. F. A. Hubbell of this city.

In Capt. Hubbell's thrilling story of the escape of himself and comrades from prison, related before the members and friends of Mead Post, G. A. R., in this city a few weeks ago, the captain thus tells of how Gen. Milroy, father of R. B. Milroy of this city, with 3500 men, of whom Capt. Hubbell was one, detained Lee's advancing column and assisted in giving Gen. Meade time to prepare his troops for the Gettysburg battle.

### Conflict at Winchester.

"It is the morning of the battle of Winchester. The long roll has sounded over the tented field. The bugle sounds the command to form for action; the lines are quickly formed; the quick touch of elbow with man to man. The bayonets glisten in the sunlight down along that swerving line; the ricochet of the flying shells scream through the air; the earth trembles with the roar of artillery; the thousands of muskets add smoke and fury to the blazing cannon. The lines waver forward, then back; over the dying rush the living; friend and foe together fall.

"Later the smoke clears itself away towards the burnished sepulchers of sunset; the blood-stained grass marks the last resting place of hundreds of comrades. The faded leaf falls to soften his last earthly bed; the nightingale sings a requiem to their souls as we bury them under a moonlit sky to rest through all eternity.

"The morning dawns; the red-crested sky reflects the rising sun as its rays fall upon our flag high on its staff over the Star fort. Half way down that staff, in his conning tower, stands our beloved General Milroy, his towering frame and silver-tipped locks brushed by the waving folds of Old Glory.

"Taking his glass in hand, he looks across the bloody field of Saturday and Sunday. Then farther on beyond the heaps and mounds of slain to the skirt of the woods, where stands 8000 men in gray, equally as brave as his own, ready to renew then the fight of the previous two days.

"Knowing, with his magnificent military experience, that to stand longer in the way of Lee's marching gathering columns toward Pennsylvania would culminate in the loss of the greater part of his 3500 worn and decimated veterans, he retires from his hazardous position, fraught with shot and shell; orders our still waving flag lowered to the color guard, and leads in that great, grand last charge through Lee's encircling lines; cutting his way through to Williamsport with the greater part of his columns, while some go to death and some to Libby prison.

"Thus he detained Lee's advance on Gettysburg for nearly three days, while Meade's marching columns on the other side of the Shenandoah were hurrying towards the north, gaining the advance when, at Culp's hill, he threw out the serried ranks of the army of the Potomac, establishing the battlefield at Gettysburg and hurling Lee back toward the South, giving the boys in blue the great victory that is being celebrated this week."

### THEIR RULE.

"Doctors are the meanest class of men."

"What makes you say that?"  
"Even when they treat a man they make him pay for it."

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No weather too hot.

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