

### NOTE ON WEATHER BUREAU PUBLICATIONS

After their suspension on December 1, 1921, by act of Congress the two Weather Bureau publications, the *National Weather and Crop Bulletin* and the *Monthly Weather Review* have started again. The *National Weather and Crop Bulletin*, however, was changed on January 1st as follows: The *Snow and Ice Bulletin* was separated from it and the weather and crop parts were combined with the *Crop Reporter and Market Reporter*, issued by the U. S. Department of Agriculture. The combination is called *Weather, Crops and Markets*. The first issue of the new publication was that for January 7, 1922. In it there are devoted some five pages (including maps) on weather and its effects upon crops, about the same amount as in the *National Weather and Crop Bulletin*.

#### Monthly Weather Review

The publication of synopses of contents of the *Monthly Weather Review* has been discontinued in the BULLETIN because of lack of space and a reduction in price of the *Review* which makes it readily available to all members of the Society. The *Monthly Weather Review* may now be had for 15c a copy or \$1.50 a year on application to the Superintendent of Documents, Government Printing Office, Washington, D. C. The former price of \$2.50 a year was considered too much to cover the cost of paper and press-work. All the cost of editorial work, typesetting, etc., is borne by the U. S. Weather Bureau. Contributing and sustaining members of the Society will continue to receive the *Review* without any special action on their part.

### THE SEASONAL RAINFALL FOR 1921-22

#### INDICATIONS BASED ON OCEAN TEMPERATURES

As explained in Bulletin No. 7 of the Scripps Institution, there appears to be a possibility of determining from summer ocean temperatures the coming seasonal rainfall in Southern California. In the present paper the observations are brought up to date, and presented in tabular form, in order to show empirically the applicability of the temperature-rainfall relation during the last five-year period, and to provide a basis for inferring the probable rainfall for the coming season.

It is the intention to publish next year a more detailed paper dealing with all of the available ocean observations, and a tentative hypothesis which has been formulated to account for the above relation.

Regarding the rainfall at the three stations, Bonita, San Diego and Escondido, as representative of San Diego County, the separate seasonal rainfalls are averaged. Similarly the average for the three stations, Tustin, Corona, and Los Angeles is assumed to be representative for the northern part of Southern California. Finally, the average of all six stations is regarded as representative for the general coastal region of Southern California.

# Ocean Temperatures and Seasonal Rainfall

Year.	Ocean Temp. at Institution Pier for 10 weeks beginning with August 1st.		Seasonal Rainfall at each of the groups of stations following the period to which the summer temperatures correspond			Mean of the Six Stations			
	Temperature.	Departures from the Five-year Mean.	Rainfall.	Departures from the Five-year Mean.	Departures.	Rainfall.	Departures from the Five-year Mean.	Departures.	
			Bonita, San Diego, Escondido			Tustin, Corona, Los Angeles			
	Observed.		Observed.	Compt.	Observed.	Compt.	Observed.	Compt.	
1916	66.4	-1.4	12.8	2.1	1.4	1.8	12.9	1.8	1.6
1917	68.8	1.0	10.0	-0.7	-1.0	-1.3	10.9	-0.2	-1.1
1918	69.3	1.5	9.6	-1.1	-1.5	-2.0	8.9	-2.2	-1.7
1919	66.7	-1.1	11.7	1.0	1.1	1.4	12.2	1.1	1.2
1920	67.8	0.0	9.2	-1.5	0.0	0.0	10.8	-0.3	0.0
Five-year Mean	67.8		10.7				11.1		
1921	66.4	-1.4			1.4	1.8			1.6

Inspection of the table shows that, in general, a negative ocean temperature departure (corresponding to relatively cold water) is followed by a positive rainfall departure (corresponding to a relatively heavy rainfall), likewise, a positive temperature departure is followed by a negative rainfall departure. Moreover, the amount of the rainfall departure is, in general, proportional to that of the temperature departure. Accordingly the temperature departure multiplied by an appropriate numerical factor corresponding to the locality gives the computed or predicted rainfall departure. The factors corresponding to the computed value in the table are, —1.0 for the southern part, —1.3 for the northern part, and —1.1 for the whole coastal region of Southern California.

The computations for the 1921-22 season thus indicate an increase of about two inches over last season's rainfall, and each one can judge for himself, from the agreement between the computed and observed values in the past, as to how significant the indications for the future are.—*George F. McEwen.*

Scripps Institution,  
La Jolla, California,  
November, 1921.

Note—This paper was received by the Secretary on November 15, 1921. Since that time the rainfall in southern California has exceeded the normal.

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## ALL TOGETHER—LET'S BOOST!!!

During the two years of its existence the Society has demonstrated its usefulness sufficiently to warrant its members putting forth their united efforts toward making it the powerful organization it might be.

So far most of the members have been content to contribute their membership fees and read the BULLETIN when it came, letting "the other fellow" do the rest. A number, however, have felt prompted to give their time and energy along with their dollars, and to the officers and these is due the credit for what has been done.

Every member who contributes as much as a dollar is certainly interested in the work of the Society, and if each one would resolve to help more actively during 1922 we will each receive ever so much more benefit from the Society, and the cause of meteorology will be greatly advanced.

While many members may feel that they cannot contribute anything for publication in the BULLETIN yet nearly every member can talk meteorology among his friends and associates and obtain new members for the Society, which will be a great help.

Let every member consider this as HIS society and take a personal interest in its welfare. With such cooperation 1922 can be made a banner year for the Society, and every member will receive much more benefit from the Society. Come on, let's go.