

Estimates - Meteorology - 1913-14.

For support of Mt. Rose station, base stations at
Fallon, Truckee and University.

Apparatus etc.

Repairs on ^{recording} instruments inc. renewals	50 00	
Cleaning barometer, etc.	8 00	58 00
Wind-direction device (Negretti's)	40 00	98

Supplies for stations

Record sheets.	10 ⁰⁰	20 00	
" Dubs		2 00	
Chemicals etc		5 00	17 00

Freight & express

25 00 25

Stationery:

including envelopes, pencils, erasers, etc.

15 00 15

Postage

15 00 15

Pictures or instrument cases (2)

20 00 20 ?

Labor:

Packing etc on Mt. Rose	25 00	
Clerical work in office	150 00	?
Shop-work	25 00	
Temporary assistance in trips to Mt. Rose	20 00	? 10
" " " " kite reports	25 00	? 285

Traveling Expenses:

To inspect stations, etc	25 00	25
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Tools:

10 00 10

Publications: Two Station Bulletins

one of about 50 and one of 100 pp. (in preparation)

500 00 500 ?

Illustrations - photographs etc

50 00

Other photographs

10 00 60

Recit of Ranch building^{at} base of Mt. Rose

25 00 25

Library

Books periodicals etc

30 00 30

~~Files~~

See library budget.

Office Files for record sheets

16 00

" " unbound pamphlets

6 00 22

\$ 1094

1114

Salaries;

Meteorologist	600 00
Associate	2200 00
Observer at Truckee	6000 2860

Buildings:

Shed for Kite reel and apparatus	100 00	2,100
		<u>\$4074</u>
		40
		<u>\$4114</u>

2200
600
2800
500
3300

The above estimates are for the continuation and completion of work that has been in progress for several years and are a minimum - a smaller appropriation would seriously impair the work just as has been the case during the current year when an allowance of \$500 was cut to \$300

The investigations referred to are:

(1) The study of frost-forecasting from elevated stations: To facilitate this, ~~the~~ three stations are maintained one on Mt. Rose one at Truckee and one at Fallon at elevations of 10,800, 5900 and 3900 feet, respectively. Continuous records are now available for more than two years and some progress has been made in the discussion of the material. The most important experimental work yet to be done is the comparison of the records on Mt. Rose with conditions in the free air by means of instrument supported by kites. Some preliminary experiments have been made but it will not be possible to do this work efficiently until a place is selected for field work and better facilities supplied; the most important of these being a suitable shed for storing the equipment on the field. The apparatus employed in this experiment has been supplied without expense to the station by J. P. Ferguson

(2) Study of the conditions of the occurrence of frost at different elevations particularly in fruit-growing districts. This requires the expense of apparatus recording temperature, moisture and wind at different parts of

the agricultural regions to determine relative frequency and intensity of frost. (For details see bulletin)
This will have to be continued for about three years in each locality until the entire State has been surveyed.
At present the equipment is fairly complete and is almost entirely located in the Buckeye valley. The

largest item of expense in continuing this work will be the moving of most of the equipment to another neighborhood in the winter of 1913-14.

If the appropriations requested are allowed and the work suffers no interruption, it is expected that a bulletin containing a discussion of the Ubb. Rose frost-forecasting material will be ready within six months. Other than the clerical and shop-labor the items in the foregoing estimate are chiefly for routine expenses of the project.