

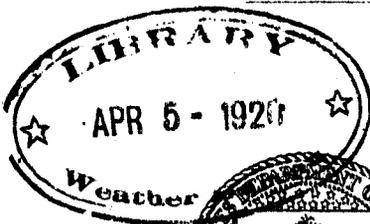
U. S. DEPARTMENT OF AGRICULTURE  
U. S. WEATHER BUREAU  
CHARLES F. MARVIN, Chief

WEATHER BUREAU  
TOPICS (AND PERSONNEL)

WITH  
INDEX

RAREBOOK  
QC  
875  
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496  
1915-1919

JULY, 1915-DECEMBER, 1919



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1915-1919~~

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WASHINGTON  
WEATHER BUREAU OFFICE

# **National Oceanic and Atmospheric Administration Weather Bureau Topics and Personnel**

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# WEATHER BUREAU TOPICS AND PERSONNEL.

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UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

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JANUARY, 1919.

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## BABY BONDS.

War Savings Stamps of the new series are now on sale. They have been appropriately called "Baby Bonds." Invest your savings in these stamps. They are one of the best forms of thrift. Each stamp that you buy is not only a splendid investment but a help to your Government.

## ADMINISTRATIVE REGULATIONS.

A new issue of the Administrative Regulations of the Department, effective February 1, 1919, has just come from press and will soon be issued to stations. It is essential that station officials thoroughly familiarize themselves with the new regulations, which contain a number of important changes, in order to avoid confusion and delays in the conduct of station affairs to which they relate.

Station Regulations will be amended at the earliest practicable date to conform to all important changes contained in Administrative Regulations.

## NEW STATION EXPENSE BOOKS.

New blank books for recording station expenses have been printed and will soon be available for issue. These books are about an inch thick, 8 by 10 inches in size, and are revised according to the recommendations of a number of station officials.

Three separate books have been prepared, as follows:

- (A) For Station Salaries (commissioned force).
- (A-Sub) For Substation Salaries (for use at section centers, or any regular station where substation salaries are handled).
- (B) For Regular Station Miscellaneous Expenses.

It is expected that stations will use the old edition Station Expense Books until all on hand are utilized. Entries in books of the new edition will begin with a fiscal year, when practicable. Issues of the new books will be made by mail on Stores Requisition when accompanied by statement thereon showing the necessity therefor. The requisition should clearly indicate the book required according to the foregoing titles.

**UNNECESSARY WORDS IN CIRCUIT REPORTS.**

The attention of the station force is called to the following extract from the Central Office Circular of June 2, 1916, the provisions of which have been disregarded in a number of instances:

Some stations add a word to their regular telegraphic report to express more fully the weather conditions at the time of observations, such as "misting", "sprinkling", etc.; others add "barometer fluctuating", etc. This practise, so far as the regular 8 a. m. and 8 p. m. observations are concerned, will be discontinued, as the information is not of sufficient value to justify the expense, nor is it required by instructions. This, however, does not apply to *special* observations.

**TELEGRAPH OR TELEPHONE TOLLS IN CONNECTION WITH SLEEPING-CAR, PARLOR-CAR, OR STEAMSHIP RESERVATIONS.**

The following extract from a recent circular of the U. S. Railroad Administration, relative to the use of local wires in making sleeping-car, parlor-car, or steamer reservations, is quoted for the information and guidance of officials and employees of the Weather Bureau:

Railroad agents or representatives will not pay for telegraph or telephone messages covering sleeping, parlor-car, or steamer reservations; passengers desiring such reservations made for them by railroad representatives will be required to pay the established charges for the necessary telegraph or telephone service in both directions, except that telegraph and telephone wires of railroads under Government control may be used locally or jointly without charge to passengers in procuring sleeping-car, parlor-car, and steamer accommodations under the following conditions:

(a) The accommodations will be secured only in connection with continuous trip, a reasonable time, not to exceed 12 hours, being allowed for train connections at points where transfers to sleepers are made.

(b) A sleeping or parlor-car or steamer berth ticket, or order therefor, covering the accommodations must be purchased at any time they are secured.

(c) Before delivery of the sleeping or parlor-car or steamer berth ticket, the agent to whom application is made for the accommodation shall require presentation or purchase of ticket good from his station to or beyond destination to which reservation is made.

For example, in through official travel from Washington, D. C., via Chicago, Ill., to St. Paul, Minn., an employee desiring to secure a Pullman reservation beyond Chicago without personal expense must present to the Washington railroad representative transportation requests covering the entire coach fare and Pullman fare desired.

Careful observance of the foregoing instructions will prevent annoyance and confusion to the traveler.

**APPLICATION OF \$120 INCREASE TO RETURNING MILITARY EMPLOYEES.**

The rulings regarding the application of the \$120 increase to returning military employees, printed in the December issue of TOPICS AND PERSONNEL, have since been amended by a decision of the Comptroller of the Treasury to the effect that an employee who *resigned* subsequent

to June 30, 1917, for the purpose of entering the military or naval service is automatically entitled to the additional compensation when formally restored to duty.

A ruling has been received also to the effect that messenger boys, apprentices, and laborers, who received the increase by certification will continue to receive the increase automatically under any subsequent appointments as temporary assistant observers, etc., provided the service is continuous.

**HIGHWAYS WEATHER SERVICE.**

Service of the character indicated by the Circular of December 23, 1918, which for convenience of reference is to be known as "The Highways Weather Service," has been arranged for portions of New York, New Jersey, Pennsylvania, Maryland, Ohio, Indiana, northern Illinois, Lower Michigan, Wisconsin, North Dakota, Wyoming, Texas, Oklahoma, Arkansas, and Louisiana. For the last four States the service consists of furnishing information concerning the condition of the highways as affected by heavy rains, an important factor in that region.

**RESTORATION OF FURLOUGHED EMPLOYEES.**

The following employees of the Weather Bureau who were furloughed on account of naval or military service have been restored to duty and assigned to the stations indicated:

Adams, Henry P. ....	Leesburg, Ga.
Connaroe, Henry .....	Erie, Pa.
Finch, Ruy H. ....	Washington, D. C.
Howell, Harry M. ....	Parkersburg, W. Va.
Lane, Russell C. ....	Washington, D. C.
Lillie, Don M. ....	Lincoln, Nebr.
Maughan, William E. ....	Ellendale, N. Dak.
Neylans, Oscar S. ....	Leesburg, Ga.
Norton, Grady .....	Meridian, Miss.
Rausch, Arthur A. ....	St. Louis, Mo.

**CHANGES IN PERSONNEL.**

The following, relative to changes in the personnel of the Weather Bureau during the month of January, 1919, is published for the exclusive information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Adams, Henry P. ....	Leesburg, Ga. ....	Assistant observer, restored to duty on February 1, 1919, from furlough without pay on account of military duty.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Andrews, Willard F.*...	Mobile, Ala. ....	Assistant observer, resigned; record, good.
Baker, Mrs. Alice*.....	Huron, S. Dak. ....	Apprentice, resigned; record, good.
Blinkhern, Laurence E.*	Los Angeles, Cal. ....	Messenger boy, resigned; record, good.
Brady, Eugene E., sr....	New Orleans, La. ....	Appointed printer at \$1,000.
Brooks, John W. ....	Salt Lake City, Utah...	Assistant observer, restored to duty on January 8, 1919, from furlough without pay on account of military duty.
Brown, Matthew, jr.*...	Richmond, Va. ....	Appointed messenger at \$480, temporarily, pending certification of eligibles.
Darden, James R. ....	Raleigh, N. C. ....	Appointed printer at \$1,000.
Desmond, Ralph H. ....	Walla Walla, Wash....	Appointed apprentice at \$480, by reinstatement.
Diehl, Miss Genevra B..	Washington, D. C. ....	Reduced to clerk at \$1,200 from \$1,400, without prejudice, because of return of an employee from military duty.
Dodd, Charles L.*.....	Lincoln, Nebr. ....	Assistant observer, temporary appointment terminated.
Dorr, Archie R. ....	Twin, Wash. ....	Repairman, resigned; record, good.
Faulkner, Henry L.*....	Dallas, Tex. ....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Ferry, Harry L. ....	Baltimore, Md. ....	Reduced to messenger boy at \$600 from \$720, without prejudice, because of return of an employee from military duty.
Foster, Victor B.*.....	Dallas, Tex. ....	Apprentice, temporary appointment terminated.
Fullerton, Durward L...	Walla Walla, Wash....	Apprentice, resigned; record, good.
Getzschmann, Harvey*..	Omaha, Nebr. ....	Messenger boy, resigned; record, good.
Hiller, William D.*....	Salt Lake City, Utah...	Assistant observer, temporary appointment terminated.
Howell, Harry M. ....	Parkersburg, W. Va. ...	Assistant observer, restored to duty on January 10, 1919, from furlough without pay on account of military duty.
Kennedy, William L.*..	Denver, Colo. ....	Assistant observer, resigned, record, good.
Lansdale, Roger F. ....	Washington, D. C. ....	Reduced to clerk at \$1,000 from \$1,200, without prejudice, because of return of an employee from military duty.
Lewis, James L. ....	Roswell, N. Mex. ....	Apprentice, resigned; record, fair.
Lillie, Don M. ....	Lincoln, Nebr. ....	Restored to duty on January 20, 1919, from furlough without pay on account of military duty, and promoted to observer at \$1,260 from clerk at \$1,200.

Appointments, promotions, reductions, etc.—Continued.

Names.	Stations.	Remarks.
Long, Arthur R.....	Leesburg, Ga.....	Appointed laborer (unskilled) at \$720; temporary appointment as assistant observer at \$900 terminated.
McClellan, Charles W.*.	Trenton, N. J.....	Messenger boy, resigned; served but a short period.
Middleton, Vivian T.*.	Washington, D. C.....	Messenger boy, resigned; record, good.
Miller, Robert L.....	Washington, D. C.....	Clerk, furloughed without pay from January 29 to February 27, 1919, inclusive, for disciplinary reasons.
Neylans, Oscar S.....	Leesburg, Ga.....	Assistant observer, restored to duty on January 27, 1919, from furlough without pay on account of military duty.
Norton, Grady.....	Meridian, Miss.....	Assistant observer, restored to duty on February 1, 1919, from furlough without pay on account of military duty.
Olson, Victor E.*.....	Chicago, Ill.....	Assistant observer, died January 10, 1919.
Parker, Perry*.....	Twin, Wash.....	Appointed repairman at \$720, temporarily, pending certification of eligibles.
Peterson, E. Ernest....	Seattle, Wash.....	Assistant observer, restored to duty on January 17, 1919, from furlough without pay on account of naval duty.
Rasmussen, Wiggo.....	Port Angeles, Wash...	Repairman, resigned; record, excellent.
Rice, Charles E.....	Washington, D. C.....	Messenger boy, restored to duty on January 8, 1919, from furlough without pay on account of naval duty.
Rice, Charles E.....	Washington, D. C.....	Messenger boy, resigned; record, fair.
Robinson, Jesse C.....	Elkins, W. Va.....	Appointed messenger boy at \$720; temporary appointment as assistant observer at \$900 terminated.
Schnuettgen, Miss Hildagard C.	Little Rock, Ark.....	Appointed messenger at \$480; temporary appointment terminated.
Schumpert, Miss Happie M. C.*	Columbia, S. C.....	Messenger, temporary appointment terminated.
Smart, Carl W.*.....	Parkersburg, W. Va...	Assistant observer, resigned; record, good.
Smith, Clifford G.....	Roswell, N. Mex.....	Apprentice, restored to duty on January 16, 1919, from furlough without pay on account of naval duty.
Thiessen, Alfred H.....	Washington, D. C..... (temporarily.)	Meteorologist, restored to duty on January 10, 1919, from furlough without pay on account of military duty.
Thomas, Frank S.*.....	Vicksburg, Miss.....	Assistant observer, resigned; record, good.
Wade, Roy W.....	Washington, D. C.....	Clerk, restored to duty on January 16, 1919, from furlough without pay on account of military duty.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Weidman, Frank B.....	Wichita, Kans.....	Reduced to messenger boy at \$480 from \$600, without prejudice, because of return of an employee from military duty.
Wells, Rodney B.*.....	Montgomery, Ala.....	Assistant observer, resigned; record, fair.
Westfall, Frank.....	Detroit, Mich.....	Messenger boy, resigned; record, excellent.
Abrams, William W.*..	Charleston, S. C.....	} Messenger boy, temporary appointment terminated.
Brown, Emil W.*.....	Washington, D. C.....	
Isham, Herbert *.....	Washington, D. C.....	
Mulvihill, Thomas N.*..	Pittsburgh, Pa.....	
Cooper, Rexford A.....	Fort Worth, Tex.....	} Appointed apprentice at \$480; temporary appointment terminated.
DeMars, Arthur J.....	Houghton, Mich.....	
Frise, Allen T.....	Sheridan, Wyo.....	
Fullerton, Durward L....	Walla Walla, Wash.....	
McInnis, James W.....	Meridian, Miss.....	
Weston, LaVerne.....	Boise, Idaho.....	
Billingsley, Ernest C....	Nashville, Tenn.....	} Appointed messenger boy at \$480; temporary appointment terminated.
Bonnett, Wayne W.....	Fresno, Cal.....	
Cammerer, Charles, jr..	Nashville, Tenn.....	
Justmann, Elmer F.....	Milwaukee, Wis.....	
Rietman, Herman L.....	Amarillo, Tex.....	
Shivers, Glover L.....	Springfield, Mo.....	
Becker, Albert W.....	Pittsburgh, Pa.....	} Appointed messenger boy at \$480.
Byrnes, Michael J.....	Mobile, Ala.....	
Riols, Ralph A.....	Charleston, S. C.....	
Crocker, Marlon H.*.....	Columbia, S. C.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Koebel, Russell N. J.*..	Detroit, Mich.....	
Lee, William E.*.....	Sandy Hook, N. J.....	
Novick, Max *.....	Omaha, Nebr.....	
Spangler, Lewis L.*.....	Los Angeles, Cal.....	
Taylor, Julian A.*.....	Washington, D. C.....	

\* Indicates temporary appointment.

*Changes in assignments.*

Name.	Relieved from—	Assigned to—
Haidle, Arthur J.....	Milwaukee, Wis.....	Chicago, Ill., assistant.
Peterson, E. Ernest....	Seattle, Wash.....	San Francisco, Cal., assistant.

*C. H. Marvin*

Chief of Bureau.

UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

FEBRUARY, 1919.

## INVESTIGATIONS IN VOLCANOLOGY.

The act making appropriations for the Weather Bureau for the fiscal year ending June 30, 1919, contains authority for investigations in volcanology and appropriates \$10,000 therefor. Provision for this project was included in a supplemental estimate submitted to Congress for the fiscal year 1917, but was not allowed. The estimate was not repeated for the fiscal years 1918 and 1919, but was inserted on the initiative of Congress itself for the current fiscal year. The primary purpose of the appropriation is to conduct investigations in volcanology at Kilauea Volcano on Hawaii Island, of the Hawaiian group, with the expectation that they may be extended later in Alaska and other places in the United States possessions where active volcanoes exist.

Investigations have been conducted at Kilauea since 1912, first under the auspices of the Massachusetts Institute of Technology, and since 1913, by the Hawaiian Volcano Research Association, which is composed principally of prominent citizens of Honolulu.

The Weather Bureau took formal control of the work at Kilauea on February 15, 1919. Prof. Thomas A. Jaggar, jr., formerly of the Massachusetts Institute of Technology, who has been in charge of the investigations since their inception, has been appointed Volcanologist and will continue in immediate charge.

Arrangements have been made to transfer the observatory building, instruments, and equipment at Kilauea from the Hawaiian Volcano Research Association to the Weather Bureau. Professor Jaggar and his assistants (not yet selected) will reside in the observatory buildings, and the major part of their work will be conducted at the Kilauea Volcano, although simultaneous studies of the activities of near-by volcanoes, especially Mauna Loa, will be made as far as practicable.

It is not feasible in this announcement to describe fully the scope and character of the investigations. This will be done in a more or less extended way in a future issue of the *Monthly Weather Review*, or else in separate publications. In brief, the studies will be con-

cerned with lava mechanism, tidal phenomena evidenced by rise and fall of the lava, and relationship between the two adjacent volcanoes and of local earthquakes to volcanic activities. The analyses of gases arising from the volcanoes, the determination of temperature, and other features will be included.

#### DAYLIGHT SAVING.

Station officials are reminded that the provisions of the "Act to save daylight and to provide standard time for the United States" will again be effective, automatically, at 2 o'clock antemeridian of the last Sunday in March.

In compliance with the provisions of this act, all clocks in the Weather Bureau offices employed to show time will be set forward one hour at the close of the working day on Saturday, March 29, and all observations and office routine will be conducted in accordance with Instructions Nos. 15, 16, 24, and 32, series of 1918.

There has been considerable agitation for the repeal of the Daylight Saving Law, and an amendment for its repeal was included in the Agricultural Appropriation Bill. However, this bill, including the amendment, failed of passage before the adjournment of Congress. Therefore, the Daylight Saving Law remains in effect, and it will be necessary to carry out the same program of observations that was in effect last summer.

#### \$240 SALARY INCREASE.

Provisions have been made by Congress to continue the special salary increases for Government employees during the fiscal year beginning July 1, 1919 (section 7, act making appropriations for the legislative, executive, and judicial expenses for the Government for the fiscal year ending June 30, 1920). The section, in so far as employees of the Weather Bureau are concerned, is the same as that quoted in *TOPICS AND PERSONNEL*, July, 1918, issue, with the following exceptions:

The amount of the increase has been made \$240 per annum instead of \$120 per annum.

Those receiving basic salaries of more than \$2,500 and less than \$2,740 will be compensated at the rate of \$2,740 per annum.

Those in the service on June 30, 1918, will be automatically entitled to the increase, provided they do not receive promotions at a rate in excess of \$200 per annum during the fiscal years 1919 and 1920. The determining date in the previous act was June 30, 1917.

Those employees receiving a basic salary of \$400 per annum or less will receive 60 per cent additional salary instead of 80 per cent.

The act also provides that employees of the War Risk Insurance Bureau shall be granted an increase of \$120 per annum. That bureau does not receive the increase during the current fiscal year.

**RECLASSIFICATION OF SALARIES.**

An amendment to the act making appropriations for the legislative, executive, and judicial expenses for the Government for the fiscal year ending June 30, 1920, provides for a joint commission on reclassification of salaries of Federal employees, to be composed of three Senators and three Representatives of the 65th Congress. The following extract from the act, describing the duties of the commission, is quoted for the information of the station personnel:

It shall be the duty of the commission to investigate the rates of compensation paid to civilian employees by the municipal government and the various executive departments and other Governmental establishments in the District of Columbia, except the Navy Yard and the Postal Service, and report by bill or otherwise, as soon as practicable, what reclassification and readjustment of compensation should be made so as to provide uniform and equitable pay for the same character of employment throughout the District of Columbia in the services enumerated.

The President of the Senate and the Speaker of the House have appointed the following to serve on the reclassification commission:

Senators Jones of New Mexico (chairman), Henderson of Nevada (vice-chairman), and Spencer of Missouri.

Representatives Keating of Colorado (secretary), Hamlin of Missouri, and Cooper of Wisconsin.

**BONUS TO DISCHARGED MEN OF THE ARMY.**

The following notes regarding the bonus authorized by Congress for discharged men of the Army are printed for the information of Weather Bureau employees who may be affected thereby:

A section of the Revenue Act, approved February 24, 1919, authorizes the payment of a bonus of \$60 to officers, soldiers, field clerks, and nurses of the Army upon honorable separation from active service by discharge, resignation, or otherwise. This bonus is not payable to the heirs or representatives of any deceased soldier.

Those who have been discharged and have received their final pay without the \$60 bonus should write a letter to the Zone Finance Officer, Lemon Building, Washington, D. C., stating their service since April 6, 1917, the date of last discharge, and their present address to which they desire their bonus checks to be sent, and inclosing with this letter their discharge certificate or military order for discharge, or both if both were issued.

**CIVIL SERVICE ELIGIBILITY OF MILITARY EMPLOYEES.**

The following extract from the act making appropriations for the legislative, executive, and judicial expenses for the Government for the fiscal year ending June 30, 1920, is published for the information of station employees:

That the period of time during which soldiers, sailors, and marines, both enlisted and drafted men, who, prior to entering the service of their country, had a civil service status, and whose names appear upon the eligible list of the Civil Service Commission, shall not be counted against them in the determination of

their eligibility for appointment under the law, rules, and regulations of the Civil Service Commission now in effect, and at the time of demobilization their civil service status shall be the same as when they entered the service.

#### RESTORATION OF FURLOUGHED EMPLOYEES.

The following employees of the Weather Bureau who were furloughed on account of naval or military service have been restored to duty and assigned to the stations indicated:

Brands, George J. ....	Columbia, S. C.
Brockway, Albert L. ....	Seattle, Wash.
Bush, Carl L. ....	Charlotte, N. C. (temporary).
Carroll, Louis W. ....	Boston, Mass.
Day, Elden W. ....	Davenport, Iowa.
Greening, Gershom K., jr. ....	Sioux City, Iowa.
Haines, William C. ....	Washington, D. C. (temporary).
Hamrick, Andrew M. ....	Washington, D. C. (temporary).
Hayes, Dallas B. ....	Houston, Tex.
Lake, Henry B. ....	St. Louis, Mo.
McGruder, Joseph F. ....	Cairo, Ill.
Naughton, Percy J. ....	New Orleans, La.
Ostrom, Ralph A. A. ....	Jacksonville, Fla.
Rupert, Karl L. ....	Portland, Oreg.
Thompson, Howard J. ....	Trenton, N. J.
Walters, Leon K. W. ....	Reading, Pa.
Weitz, Bernard O. ....	San Juan, P. R.

#### REINSTATEMENT APPOINTMENTS.

In effecting necessary readjustments in station personnel a number of reinstatements of former employees who resigned during the war for the purpose of entering the military service, or to engage in some phase of war activity, are expected. The attention of station officials is therefore invited to paragraph 115, Station Regulations, which requires that a statement be furnished as to whether or not any members of the family of the person who is making application for reinstatement are in the Government service.

#### ONE SUBJECT TO A LETTER.

Attention is invited to paragraph 303 of Station Regulations, and especially to that portion relating to the inclusion of more than one subject in a letter. There has been a growing tendency on the part of some station officials to treat of widely varying subjects in a single letter. This causes delay in action by the Central Office, especially when two or more divisions may be concerned. It is recognized that it is sometimes difficult to comply literally with the instructions, especially when several subjects are more or less interrelated, but a little care will do much to overcome this difficulty. It is especially desirable that matters pertaining to personnel be not included in letters pertaining to other subjects.

**INSPECTION OF SUBSTATIONS.**

Conditions which made it necessary to curtail the inspection of substations during the period of war activities have been relieved to a considerable extent, and favorable consideration will now be given to recommendations for such inspections of substations as may be necessary and in accordance with existing regulations.

**IMPROVEMENT IN MONTHLY WEATHER REVIEW.**

Beginning with the January issue, 1919, the Monthly Weather Review will have a new, and, it is hoped, an improved internal arrangement. The editors are making a serious attempt to obtain timely articles, to add discussions to them, and to prepare notes and abstracts of all important meteorological articles and publications received at the Central Office. The material is not inserted in order of receipt, but it is carefully grouped and arranged in logical sequence. Thus, some papers and abstracts may be held over a few months in order to be published with others dealing with closely related subject matter.

Leading groups to appear during the next six months are planned as follows, though there is a little uncertainty as to the contents of the last three mentioned below:

- January, 1919: The sun and the weather.
  - February, 1919: Aeronautical and military meteorology.
  - March, 1919: Clouds and the use of clouds observations in forecasting.
  - April, 1919: Agricultural meteorology.
  - May, 1919: General circulation of the atmosphere, cyclones and anticyclones.
  - June, 1919: Recent advances in forecasting.
- Contributions on subjects related to the above-mentioned topics will be very welcome.

Although less than one-fifth of the circulation of the Monthly Weather Review goes to the regular Weather Bureau stations, the Review is edited primarily for the U. S. Weather Bureau personnel, and, therefore, it is hoped that this magazine will meet all our meteorological needs. If it does not, helpful suggestions will be welcome at any time.

Since one copy of the Review is inadequate for the needs of men on the larger stations, it is proposed to issue extra copies to such stations as need them. Since only one copy per station is sufficient for the files of the station, these extra copies may be returned to the Central Office when no longer needed. Thus, without increasing the expense of publication, our surplus stock of Reviews can be made more useful. As a suggested basis of distribution, stations with four to six men can be supplied with one extra copy, those with seven to ten

men with two extra ones, and those with eleven or more with three extra copies. Officials in charge of stations are requested to report by April 15, 1919, the number of additional copies desired for temporary use. In certain cases, where the numbers indicated would be insufficient, an application for a larger allowance might be considered.

#### ADMITTANCE TO CIVIL SERVICE EXAMINATIONS.

Under date of March 2, 1919, the President revoked the Executive Order of April 2, 1917, which required the assent of the head of a department or office to an employee's examination or certification under the Civil Service rules. Employees are therefore at liberty to apply direct to the Civil Service Commission for admittance to examinations.

#### CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of February, 1919, is published for the exclusive information of employees of the Weather Bureau:

#### *Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Baker, James R.*.....	Ellendale, N. Dak.....	Assistant observer, resigned; record, excellent.
Braidwood, Horace McQ.*	Atlantic City, N. J.....	Messenger boy, resigned; record, good.
Brands, George J.....	Columbia, S. C.....	Assistant observer, restored to duty on February 24, 1919, from furlough without pay on account of military duty.
Bratton, Edwin*.....	Grand Haven, Mich.....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Broadenax, Moses L.*..	Washington, D. C.....	Appointed messenger at \$480, temporarily, pending certification of eligibles.
Broadenax, Moses L.*..	Washington, D. C.....	Messenger, temporary appointment terminated.
Brockway, Albert L....	Seattle, Wash.....	Observer, restored to duty on February 26, 1919, from furlough without pay on account of military duty.
Butler, Merel C.....	Denver, Colo.....	Reduced to messenger boy at \$600 from \$720, without prejudice, because of return of an employee from military duty.
Carroll, Louis W.....	Boston, Mass.....	Assistant observer, restored to duty on March 1, 1919, from furlough without pay on account of military duty.
Church, John P.....	Washington, D. C.....	Clerk, furlough without pay on account of ill health extended to May 17, 1919, inclusive.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Claypoole, Miss Helen R.*	Topeka, Kans.....	Assistant observer, resigned; record, good.
Clough, Homer W.....	Washington, D. C.....	Appointed observer at \$1,260; temporary appointment as assistant observer at \$1,080 terminated.
Connaroe, Henry.....	Erie, Pa.....	Messenger, restored to duty on February 10, 1919, from furlough without pay on account of naval duty.
Darden, James R.....	Raleigh, N. C.....	Printer, resigned; served but a short period.
Day, Elden W.....	Davenport, Iowa.....	Messenger boy, on furlough for military duty, resigned; record, excellent.
Day, Elden W.....	Davenport, Iowa.....	Appointed assistant observer at \$1,080.
Dunn, Frank J., jr.....	Jacksonville, Fla.....	Messenger boy, resigned; record, excellent.
Fabrizio, Francis, jr....	Washington, D. C.....	Appointed folder and feeder at \$720.
Finch, Ruy H.....	Washington, D. C.....	Clerk, restored to duty on February 10, 1919, from furlough without pay on account of naval duty.
Finch, Ruy H.....	Washington, D. C.....	Promoted to clerk at \$1,400 from \$1,200.
Fisher, John C.....	Ithaca, N. Y.....	Promoted to observer at \$1,440 from clerk at \$1,400.
Gaines, Ray A.*.....	Drexel, Nebr.....	Laborer (unskilled), resigned; record, good.
Glennon, Henry J.....	Trenton, N. J.....	Appointed messenger boy at \$480.
Glover, George J.....	Washington, D. C.....	Appointed laborer (skilled) at \$720; appointment as unskilled laborer terminated.
Grayson, Samuel F.*...	Meridian, Miss.....	Assistant observer, resigned; record, good.
Greening, Gershom K., jr.	Sioux City, Iowa.....	Observer, restored to duty at noon February 15, 1919, from furlough without pay on account of military duty.
Griffiths, Alfred E.*....	Huron, S. Dak.....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Haines, William C.....	Washington, D. C..... (temporarily.)	Assistant observer, restored to duty on February 19, 1919, from furlough without pay on account of military duty.
Hamrick, Andrew M....	Washington, D. C..... (temporarily.)	Meteorologist, restored to duty on March 1, 1919, from furlough without pay on account of military duty.
Hayes, Dallas B.....	Houston, Tex.....	Assistant observer, restored to duty on February 25, 1919, from furlough without pay on account of military duty.
Hetland, Stanley M.....	La Crosse, Wis.....	Apprentice, resigned; record, excellent.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Hetland, Stanley M.....	La Crosse, Wis.....	Appointed assistant observer at \$1,080.
Hines, Raymond D.*...	Cape Henry, Va.....	Skilled mechanic, resigned; record, good.
Howell, Harry M.....	Parkersburg, W. Va...	Assistant observer, resigned; record, poor.
Jaggar, Thomas A., jr...	Kilauea, Hawaii.....	Appointed volcanologist at \$3,960.
Jones, Abra.*.....	Washington, D. C.....	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Karcher, Miss Catherine M.	Washington, D. C.....	Clerk, resigned; record, excellent.
Kimbell, Fred F.....	Groesbeck, Tex.....	Assistant observer, resigned; record, good.
Lane, Russell C.....	Washington, D. C.....	Observer, restored to duty on February 15, 1919, from furlough without pay on account of military duty.
Lanning, Harry B.....	Washington, D. C.....	Clerk, resigned; record, excellent.
Lansdale, Roger F.....	Washington, D. C.....	Promoted to clerk at \$1,200 from \$1,000.
McGraw, Cyril J.....	Tampa, Fla.....	Appointed messenger boy at \$480; temporary appointment terminated.
McGruder, Joseph F...	Cairo, Ill.....	Assistant observer, restored to duty on March 1, 1919, from furlough without pay on account of military duty.
McManaman, Clifton E.*	Lincoln, Nebr.....	Assistant observer, resigned; record, good.
Massicotte, Miss Dorothy C.	Washington, D. C.....	Appointed clerk at \$1,000; temporary appointment terminated.
Maughn, William E.....	Ellendale, N. Dak.....	Observer, restored to duty on February 17, 1919, from furlough without pay on account of naval duty.
Miller, Charles E.*.....	Atlantic City, N. J.....	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Myers, Herbert J.....	Washington, D. C.....	Appointed minor clerk at \$900.
Naughton, Percy J.....	New Orleans, La.....	Assistant observer, restored to duty on February 10, 1919, from furlough without pay on account of military duty.
Nitzer, Arthur G.....	Evansville, Ind.....	Messenger boy, on furlough for military duty, resigned; record, good.
Ostrom, Ralph A. A....	Jacksonville, Fla.....	Restored to duty on March 1, 1919, from furlough without pay on account of naval duty, and promoted to messenger boy at \$600 from \$480.
Rausch, Arthur A.....	St. Louis, Mo.....	Assistant observer, restored to duty on February 5, 1919, from furlough without pay on account of military duty.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Reimer, Harold J. F....	Minneapolis, Minn.....	Messenger boy, resigned; record, good.
Roop, John D.*.....	Miami, Fla.....	Assistant observer, resigned; record, excellent.
Roseneranz, Leo E.....	Rapid City, S. Dak.....	Appointed messenger at \$480; temporary appointment terminated.
Rupert, Karl C.....	Los Angeles, Cal..... (temporarily.)	Observer, restored to duty on March 1, 1919, from furlough without pay on account of military duty.
Sholenberger, Frederick O.*	Reading, Pa.....	Assistant observer, resigned; record, excellent.
Slaughter, Miss Edna M.	Washington, D. C.....	Clerk, resigned; record, good.
Smith, Miss Verna.....	Sault Ste. Marie, Mich.	Appointed apprentice at \$480; temporary appointment terminated.
Stutts, Miss Mattie V...	Birmingham, Ala.....	Appointed messenger at \$480; temporary appointment terminated.
Taylor, Julian A.....	Washington, D. C.....	Appointed messenger boy at \$480; temporary appointment terminated.
Thompson, Howard J...	Trenton, N. J.....	Restored to duty on March 1, 1919, from furlough without pay on account of military duty, and promoted to assistant observer at \$1,080 from \$900.
Toliver, James T.....	Washington, D. C.....	Appointed laborer (skilled) at \$660; appointment as unskilled laborer terminated.
Turner, Linwood.....	Washington, D. C.....	Appointed laborer (skilled) at \$720; appointment as unskilled laborer terminated.
Ulrich, William J.....	Erie, Pa.....	Messenger boy, furloughed without pay from February 10, 1919, to February 9, 1920, inclusive, on account of return of an employee from naval duty.
Van Schelven, John W.	Grand Haven, Mich...	Apprentice, resigned; record, excellent.
Walters, Leon K. W....	Reading, Pa.....	Restored to duty on March 1, 1919, from furlough without pay on account of military duty, and promoted to assistant observer at \$1,080 from \$900.
Carson, Ernest.....	Houston, Tex.....	} Appointed assistant observer at \$1,080; temporary appointment at \$900 terminated.
Cassidy, James J.....	Albany, N. Y.....	
Frushour, Russel E.....	Royal Center, Ind.....	
Simes, Edward F.....	Columbus, Ohio.....	
Tuck, Richard W., jr...	New Orleans, La.....	
Fick, Erwin W.*.....	Davenport, Iowa.....	} Assistant observer, temporary appointment terminated.
McCandless, Miss Ruth H.*	St. Louis, Mo.....	
Parkerson, Burdell C.*..	Chicago, Ill.....	
Smith, Lester J.*.....	New Orleans, La.....	

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Dailey, Richard B.* .....	Cape Henry, Va. ....	} Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Frazure, John C.* .....	Miami, Fla. ....	
Henderson, Edgar B.* ..	Vicksburg, Miss. ....	
Marshall, Orville D.* ..	Chicago, Ill. ....	
Fletcher, Leo J.* .....	Washington, D. C. ....	} Appointed messenger boy at \$480, temporarily.
Freeman, Earl M.* .....	Washington, D. C. ....	
Hawley, George P.* .....	Washington, D. C. ....	
Henry, Henderson* .....	Washington, D. C. ....	
Taylor, Albert F.* .....	Washington, D. C. ....	
Wright, William* .....	Washington, D. C. ....	} Messenger boy, temporary appointment terminated.
Freeman, Earl M.* .....	Washington, D. C. ....	
Hawley, George P.* .....	Washington, D. C. ....	
Wright, William* .....	Washington, D. C. ....	

\* Indicates temporary appointment.

<sup>1</sup> Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Fisher, John C. ....	Washington, D. C. ....	Ithaca, N. Y., assistant.
Hetland, Stanley M. ....	La Crosse, Wis. ....	Lincoln, Nebr., assistant.
Reed, Thomas E. ....	Ithaca, N. Y. ....	New Haven, Conn., assistant.
Rupert, Karl C. ....	Los Angeles, Cal. ....	Portland, Oreg., assistant.

*C. H. Marvin.*

Chief of Bureau.

UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

MARCH, 1919.

## TRANS-ATLANTIC FLIGHT.

As indicated by frequent reports in the daily press, the United States Navy is making careful preparation, with a view to the accomplishment of trans-Atlantic flight with a heavier-than-air machine as early as possible during the present year. Inasmuch as weather conditions constitute a vital factor in the success or failure of this project, it is essential that these conditions be known as accurately as possible, in order that the aviator may know beforehand his "margin of safety" and may make his plans accordingly. To this end, the Navy has requested the Weather Bureau to take charge of the arrangements for receiving reports of meteorological conditions and to issue advice as to the most favorable time for the flight. Through cooperation with the British Meteorological Office, such reports are to be furnished by radio from various European stations. In addition to these, it is expected that observations will be taken on ships at sea and also forwarded by radio to this country. These observations will include surface and free air conditions, and will be studied in connection with those received from Europe and with those regularly taken in the United States and Canada. Forecasts, based upon all of these reports, will be issued by the forecasters in Washington, and, when conditions become favorable for a flight, advice to this effect will be included in the forecast. It is expected also that a representative of the Weather Bureau will be stationed at Newfoundland, which has been selected as the starting point. Meteorological reports will be received at that place, as well as at Washington, and it will be the function of the official stationed there, upon receipt of advice from Washington that conditions are favorable for flight, to indicate in detail for the several parts of the course selected, the assistance that will be given by the winds, or, in other words, the time that will be required for the flight under the combined action of the airplane's speed and direction and those of the wind.

## LOCAL AND PRACTISE FORECASTS.

Instructions soon will be issued amending paragraph 412-R, Station Regulations, by the elimination of the following language:

Whenever a local forecast of weather or temperature, that differs from the State forecast, is made and published, a memorandum setting forth the reasons for making it will be immediately prepared by the local forecaster and mailed to the Central Office with Form 1069-Met'l for the day and a copy mailed to the district forecast center. The memorandum will be written on paper of the same size as the form and mailed in the same envelope. Officials are reminded that those who desire to engage in active forecast work can do so through the scheme of practise forecasting, as provided elsewhere in the Regulations.

This change is made as a result of a conference recently held with a number of station officials. It is believed that the purpose for which the instructions were issued originally has been served. However, this modification of paragraph 412-R will not affect the provisions of paragraphs 395-400, inclusive, which relate to the making of local forecasts, and paragraphs 494-96, inclusive, relating to practise forecasts, which will remain in force.

Local forecasting has been in operation since the Weather Bureau was organized in 1891 and its value has been proved. It is the policy to encourage local officials to study problems which will improve the weather forecasts, especially with reference to changes that affect important local interests. It is recognized that the wording of general forecasts issued from the district centers can not go into minute detail. Therefore, it is the function of the local forecaster to amplify the predictions and supply precise information needed for his locality whenever it is necessary to do so. This does not mean that the forecast should be changed to differ radically from the State forecast. In fact, this should be avoided as far as possible, but officials having the necessary authority are expected to do so whenever the situation is such as to demand it. It has been gratifying to note the good judgment that has been exercised by the majority of local officials in this respect. Good team work on the part of the district forecasters and the local forecasters is necessary in order that all interests may be effectively served, and they share in the responsibility that rests upon the bureau in accomplishing this purpose.

#### CANADIAN DAYLIGHT SAVING LAW NOT REENACTED.

In connection with the item relating to daylight saving appearing in the February issue of TOPICS AND PERSONNEL, it may be interesting to state that under date of March 27, 1919, the Parliament of Canada, by a vote of 105 to 51, declined to reenact the daylight saving act that was in effect in Canada last year. The law was effective in Canada for one year, while it is permanent in the United States until repealed. However, the Meteorological Service of Canada has decided to advance the clock, so that observations will be taken and other meteorological work performed in consonance with United States time. It is understood that the railroads and nearly all cities and towns in Canada have taken similar action.

**RESTORATION OF FURLOUGHED EMPLOYEES.**

The following employees of the Weather Bureau who were furloUGHed on account of naval or military service have been restored to duty and assigned to the stations indicated:

- Dement, Harry C. .... Parkersburg, W. Va.
- Gardner, Otis E ..... Washington, D. C.
- Springman, Herbert C. .... Kansas City, Mo.
- Sweetney, John ..... Washington, D. C.
- Weightman, R. Hanson .... Washington, D. C.
- Wyatt, William W. .... Honolulu, T. H. (temporary).

**DEPARTMENT MEMORIAL.**

A movement has been inaugurated, which has the sympathy of the Secretary of Agriculture, for the erection of a memorial on the grounds of the Department in Washington to employees who lost their lives in the naval or military services during the war with Germany. While the form of the memorial has not been determined definitely, it will probably be an imposing stone drinking fountain with an appropriate tablet bearing the name of each coworker that died in this war.

The funds for the memorial will be obtained entirely by subscription from employees and their friends, and a committee consisting of Mr. A. A. Nourie and Mr. E. H. Hughes has been appointed to represent the Weather Bureau. Appropriate literature will be sent by this committee to all stations.

**USE OF TRANSPORTATION REQUESTS IN SECURING SLEEPING AND PARLOR CAR ACCOMMODATIONS.**

Attention of employees of the Weather Bureau is invited to the following provisions of an order recently issued by the United States Railroad Administration, outlining the procedure which will obtain in connection with the use of Government transportation requests to secure sleeping and parlor car accommodations:

Effective April 1, 1919, the practise of issuing sleeping and parlor car tickets in exchange for Government transportation requests and State orders calling for accommodations to be furnished by sleeping and parlor car lines will be discontinued, and in lieu thereof the following will apply:

The transportation requests may be presented to ticket agents, and the accommodations called for by the requests, when available, will be reserved.

The ticket agent will indicate on the request, in space provided for showing the form and number of ticket, the specific space to be furnished, that is, berth or seat number, car number, train time, and, unless shown on request, the name of the initial road, proper notation to be made by the ticket agent on his office diagram, and the request returned to the holder for surrender to conductor.

If, after reservation has been made, trip is abandoned, the ticket agent should be notified so that the space can be released. It will be permissible, if the request is returned to the ticket agent before departure of the train, for him to erase the reservation from the diagram and from request, and make new reservation, if desired.

All transportation requests must be lifted by the initial sleeping or parlor car conductor, and transfer tickets be issued where necessary.



**RESTRICTION IN USE OF CABS AND STREET CARS.**

The attention of employees of the bureau who travel on official business is invited to the fact that, under ruling of the Auditor for the State and Other Departments, "after March 1, 1919, satisfactory explanation will be required when cabs or other means of transportation more expensive than street cars are used." It will be necessary, when submitting reimbursement accounts containing items for transportation more expensive than by street cars, to make an explanation in writing why it was not practicable to use street cars.

Street car fares charged by employees receiving a per diem in lieu of subsistence to place of work and return for one or more days will be disallowed.

Formal amendments to the Fiscal Regulations and Station Regulations to accord with the foregoing will be issued as soon as practicable.

**PRESS DISPATCHES ON FOREIGN WEATHER.**

The editor of the Monthly Weather Review suggests that in addition to the present submission of newspaper clippings dealing with the weather, station officials can help to make interesting the new section of the Review entitled, "Notes on Weather in Other Parts of the World," by keeping a lookout for occasional brief dispatches on unusual weather, floods, etc., in foreign countries.

**CANCELED STATION REGULATION PAGES NOT TO BE PRESERVED.**

Instructions will soon be issued revoking paragraph 5 of Station Regulations, which requires the retention of canceled pages. This action is taken because of the opinion expressed by a number of station officials that the preservation of the canceled pages serves no useful purpose and adds to the bulkiness of the volume. All canceled pages should be removed and destroyed.

**CHANGES IN PERSONNEL.**

The following, relative to changes in the personnel of the Weather Bureau during the month of March, 1919, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Allen, Charles C. ....	Fort Worth, Tex. ....	Appointed apprentice at \$600; temporary appointment as assistant observer at \$900 terminated.
Allen, Edgar W.* .....	Washington, D. C. ....	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Atto, Ora O .....	Charlotte, N. C. ....	Meteorologist, resigned; record, excellent.
Beesley, George .....	Sekiou, Wash .....	Repairman, furloughed without pay from April 1 to October 31, 1919, on account of the temporary closing of the station.
Bethurum, Murl E. ....	Dallas, Tex. ....	Appointed apprentice at \$480.
Bush, Carl L. ....	Washington, D. C. .... (temporarily.)	Restored to duty on March 8, 1919, from furlough without pay on account of naval duty, and promoted to observer at \$1,260 from clerk at \$1,200.
Butler, Merel C. ....	Denver, Colo. ....	Messenger boy, resigned; record, excellent.
Crocker, Arthur L. ....	Sacramento, Cal. ....	Apprentice, resigned; record, excellent.
Crocker, Marlon H.* ....	Columbia, S. C. ....	Messenger boy, resigned; record, good.
Dailey, Fabius H.* ....	Cape Henry, Va. ....	Appointed skilled mechanic at \$720, temporarily, pending certification of eligibles.
DeMent, Harry C. ....	Parkersburg, W. Va. ...	Assistant observer, restored to duty on March 10, 1919, from furlough without pay on account of military duty.
Fabrizio, Francis, jr. ....	Washington, D. C. ....	Folder and feeder, resigned; record, good.
Faulkner, Henry L.* ....	Dallas, Tex. ....	Apprentice, resigned; record, good.
Ferry, Harry L. ....	Baltimore, Md. ....	Messenger boy, resigned; record, excellent.
Ferry, Harry L.* ....	Washington, D. C. ....	Appointed folder and feeder at \$720, temporarily, pending certification of eligibles.
Ferry, Harry L.* ....	Washington, D. C. ....	Folder and feeder, resigned; served but one day.
Frnka, Jasno L. ....	Washington, D. C. ....	Appointed minor clerk at \$900.
Gardner, Otis E. ....	Washington, D. C. ....	Restored to duty on March 6, 1919, from furlough without pay on account of military duty, and promoted to clerk (draftsman) at \$1,200 from \$1,000.
Gnant, Joseph C.* ....	Trenton, N. J. ....	Assistant observer, resigned; record, good.
Hanna, Elmer F.* ....	Houston, Tex. ....	Assistant observer, resigned; record, good.
Hinkle, Russell F. ....	Kansas City, Mo. ....	Messenger boy, resigned; record, excellent.
Hodges, Bernard F. ....	Kansas City, Mo. ....	Messenger boy, resigned; record, excellent.
Jennings, Thomas J.* ...	Washington, D. C. ....	Appointed lithographer at \$1,200, temporarily, pending certification of eligibles.
Jones, Abra.* ....	Washington, D. C. ....	Messenger boy, resigned; record, fair.
Kibler, James H.* ....	Washington, D. C. ....	Appointed fireman and steam fitter at \$840, temporarily, pending certification of eligibles.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Lake, Henry B . . . . .	Washington, D. C. . . . . (temporarily.)	Restored to duty on March 8, 1919, from furlough without pay on account of naval duty, and promoted to observer at \$1,260 from clerk at \$1,200.
Martin, Hugh E.* . . . . .	Springfield, Mo. . . . .	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Mitchell, George C. . . . .	Washington, D. C. . . . .	Laborer (unskilled), appointment terminated on account of unsatisfactory services.
Nelson, George C.* . . . . .	Chicago, Ill. . . . .	Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Puett, Miss Alta M . . . . .	Topeka, Kans. . . . .	Messenger, resigned; record, fair.
Roth, Walter T.* . . . . .	La Crosse, Wis . . . . .	Appointed apprentice at \$480; temporarily, pending certification of eligibles.
Severtson, Mrs. Winifred M.*	Minneapolis, Minn. . . . .	Appointed messenger at \$480; temporarily, pending certification of eligibles.
Shivers, Glover L. . . . .	Springfield, Mo. . . . .	Messenger boy, resigned; record, good.
Smith, Clifford G. . . . .	Roswell, N. Mex. . . . .	Promoted to apprentice at \$600 from \$480.
Springman, Herbert C. . . . .	Kansas City, Mo. . . . .	Assistant observer, restored to duty on April 1, 1919, from furlough without pay on account of naval duty.
Stafford, Jesse N. . . . .	Greenville, S. C. . . . .	Apprentice, resigned; record, fair.
Stephens, Jerome T. . . . .	Topeka, Kans . . . . .	Appointed messenger boy at \$480, by reinstatement.
Sweetney, John . . . . .	Washington, D. C. . . . .	Laborer (unskilled), restored to duty on April 1, 1919, from furlough without pay on account of military duty.
Thompson, Benjamin . . . . .	Green Bay, Wis . . . . .	Messenger boy, on furlough for military duty, resigned; record, excellent.
Tuttle, Gerald E. . . . .	Scranton, Pa . . . . .	Appointed messenger at \$480; temporary appointment terminated.
Vose, Ralph H.* . . . . .	Omaha, Nebr . . . . .	Assistant observer, resigned; record, good.
Weidman, Frank B. . . . .	Wichita, Kans. . . . .	Promoted to messenger boy at \$600 from \$480.
Weightman, R. Hanson. . . . .	Washington, D. C. . . . .	Restored to duty on April 1, 1919, from furlough without pay on account of military duty, and promoted to meteorologist at \$1,800 from clerk at \$1,600.
Weitz, Bernard O. . . . .	San Juan, Porto Rico. . . . .	Restored to duty on January 21 (reported for duty March 17), 1919, from furlough without pay on account of military duty, and promoted to assistant observer at \$1,080 from \$900.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Adams, Curtis.....	Groesbeck, Tex.....	} Appointed assistant observer at \$1,080.
Bacon, Charles M.....	Grand Rapids, Mich...	
Clowes, Ernest S.....	Syracuse, N. Y.....	
Boulon, Mrs. Erva L.*..	San Juan, Porto Rico..	} Assistant observer, temporary appointment terminated.
Kashevaroff, Andrew P.*	Juneau, Alaska.....	
Lewis, Van Horn*.....	Columbia, S. C.....	
Mackay, William R.*..	New Haven, Conn.....	
Nelson, Miss Edith L.*..	Syracuse, N. Y.....	
Nelson, George C.*.....	Chicago, Ill.....	
Panchot, Kenneth*.....	Seattle, Wash.....	
Shaver, Carl W.*.....	Grand Rapids, Mich...	
Andersen, Austin M....	Providence, R. I.....	} Appointed messenger boy at \$480; temporary appointment terminated.
Carmody, Thomas.....	Cairo, Ill.....	
Koebel, Russell N. J....	Detroit, Mich.....	
Miller, Roy F.....	Harrisburg, Pa.....	
Novick, Max.....	Omaha, Nebr.....	

\* Indicates temporary appointment.

<sup>1</sup> Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Dailey, Richard B.....	Cape Henry, Va.....	Hatteras, N. C., assistant.
Lake, Henry B.....	Washington, D. C.....	St. Louis, Mo., assistant.
Lehning, Charles T.....	Cairo, Ill.....	Memphis, Tenn., assistant.
Warren, Leslie A.....	Kansas City, Mo.....	Broken Arrow, Okla., assistant.

*C. H. Marvin.*

*Chief of Bureau.*

UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

APRIL, 1919.

## \$240 SALARY INCREASE.

The Secretary has issued a memorandum, dated April 25, 1919, relative to the increase of compensation of \$240 per annum to employees, based on the provisions of the act making appropriations for the legislative, executive, and judicial expenses of the Government for the fiscal year ending June 30, 1920.

The memorandum quotes the law, defines its application, and promulgates regulations thereunder. The law and regulations, so far as they relate to station employees, already have been announced. Therefore, only that portion with which the service as a whole is concerned is quoted.

The Comptroller, in a personal interview with a representative of the Solicitor's office, has construed his decision of April 5, 1919, to mean that any employee who has received a certificate entitling him to the \$120 increase in compensation provided for under section 6 of the act of July 8, 1918, will, under said certificate, be automatically entitled to the \$240 increase provided for in section 7 of the Legislative, Executive, and Judicial Act of March 1, 1919; that no further certificate is required by the latter act; and that such certificate remains in force until revoked by the Secretary, upon a finding that such employee has become less efficient or that the certificate was originally issued under a misapprehension of the facts.

All employees who were on the statutory and lump-fund rolls of the Department of Agriculture on June 30, 1918, and receive salaries of not less than \$400 per annum nor more than \$2,500 per annum (except those employees enumerated in paragraphs 3 and 4 of this memorandum), will automatically receive increased compensation at the rate of \$240 per annum during the fiscal year 1920.

That portion of paragraph 3 of this memorandum which requires the certificate of the Secretary to entitle to the benefits of the increase of compensation "those employees who have entered the service since June 30, 1918, whether previously in the service or not" does not apply in the following cases, such employees being automatically entitled to the \$240 or other increase upon restoration to the department rolls:

Employees furloughed to enter the military or naval service of the United States, if otherwise entitled to the increase.

Employees receiving the increased compensation and who resigned subsequent to June 30, 1918, to enter either the military or naval service of the United States, if otherwise entitled to the increase.

Employees who left the service of the department subsequent to June 30, 1918,

to engage in work abroad under the provisions of section 12-f of the act of September 24, 1917.\*

Employees who resigned from the service of the GOVERNMENT after receiving the \$240 or other increase of compensation and are subsequently appointed in this department, provided such appointment does not involve an increase of salary in excess of \$200, in which case a certificate by the Secretary will be required in accordance with paragraph 8 of this memorandum.

Employees certified by the Civil Service Commission from reemployment or regular registers, who have previously received the \$240 or other increase in another Government establishment, whether by certification or otherwise.

Employees receiving more than \$2,500 per annum and less than \$2,740 per annum will receive increased compensation at a rate sufficient to bring their salaries up to the maximum of \$2,740 per annum.

Employees receiving less than \$400 per annum will receive increased compensation at the rate of sixty per cent per annum.

The law provides that where an employee in the service on June 30, 1918, has received, during the fiscal year 1919, or shall receive, during the fiscal year 1920, an increase of salary at a rate in excess of \$200 per annum, or where an employee, whether previously in the service or not, has entered the service since June 30, 1918, whether such employee has received an increase in pay or not, such employees shall be granted increased compensation ONLY UPON CERTIFICATION OF THE SECRETARY OF AGRICULTURE THAT THE ABILITY AND QUALIFICATIONS PERSONAL TO SUCH EMPLOYEES JUSTIFY SUCH INCREASE OF COMPENSATION.

It was clearly not the purpose of Congress to provide that every employee, without exception, should be given the \$240 increase of compensation, otherwise these limitations would not have been included. Chiefs of bureaus, divisions and offices should, therefore, exercise discrimination in making recommendations regarding the increase, and recommend only those cases where it is clear that the employees, on account of "ability and qualifications personal to them," should be granted the increase. This is particularly true in the cases of those employees who have received promotions aggregating more than \$200 per annum since June 30, 1918. It was undoubtedly the intention of Congress, as indicated by the use of the words "ability and qualifications personal to them," that the additional compensation in such cases, as well as in the cases of employees who have entered the service since June 30, 1918, should be allowed only when the employees have special qualifications for the task upon which they are engaged and have exhibited special ability in the performance of their work. It is not felt to be in accordance with the spirit of the law for chiefs of bureaus, divisions, and offices to recommend that the increase be granted to every employee or to all employees other than those whose work is below a fair standard of efficiency.

The following classes of employees will in no circumstances be entitled to the increase of compensation:

Employees whose duties require only a portion of their time, except charwomen, who shall be included.

Employees whose services are utilized for brief periods at intervals.

Employees who receive a part of their PAY from any outside source under cooperative arrangements with the Department of Agriculture.

Employees who serve voluntarily or receive only a nominal compensation.

Employees paid from lump-sum appropriations in bureaus, divisions, commissions, or any other Government agencies or employments created by law since January 1, 1916.

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\*NOTE.—No Weather Bureau employees affected by this act.

1919 YEAR BOOK.

Preparations are now under way for the 1919 issue of the Year Book of the Department, and it is planned that it shall be issued promptly. This was not possible for the 1918 issue, because of the great amount of work which the Government Printing Office had to do during the war. In order that copy may be placed in the hands of the printer in the early fall, it is necessary that subjects be assigned to contributors in the near future so that they may have ample time to prepare and submit the articles by October 1 at the latest.

The character of the articles desired is so well known that it is needless to describe them. The object of this notice is to invite employees of the Weather Bureau who desire to prepare articles for the Year Book to forward to the Central Office, as soon as possible, the title thereof and a brief description or syllabus of the subject matter. These will be submitted to the department for its consideration, and the authors of such as are selected will be notified promptly in order that they may have ample time to prepare their manuscripts.

SUBMISSION IN DUPLICATE OF ARTICLES FOR PUBLICATION.

The attention of employees is invited to paragraph 357 of Station Regulations, which requires that articles submitted for outside publication be furnished in duplicate. This instruction frequently is overlooked, which results in delayed action. This is true especially of papers intended for outside publication. Such papers are first passed on by the Committee on Scientific Papers, whose function is to examine them for accuracy of scientific statements, correctness of facts, bureau policy, propriety of publication, etc. Another and important duty of this committee is editorial revision. If no serious objections lie against publication, the papers must, under regulations, be submitted *in duplicate* to the department for approval. One copy is retained in the department files and the other returned to the Weather Bureau with a letter authorizing or disapproving publication. Failure of authors to submit duplicate copies necessitates withholding action or else having an extra copy made in the Central Office. To avoid delay the latter action has sometimes been taken on articles of moderate length; but obviously the Central Office should be spared this unnecessary work in all cases. Much inconvenience and delay will be avoided, therefore, if the instructions on the subject are observed.

In the case of illustrated articles it is sometimes impracticable to secure duplicate diagrams, photographs, etc., or else considerable time and labor are involved in their preparation. In such cases the duplication of illustrations will be waived, but it is desired that as far as possible the original and duplicate manuscripts be complete.

In transmitting articles for outside publication, invariably it should be stated whether or not compensation is to be received, as this also is a matter that must be considered by the department.

**PSYCHROMETRIC OBSERVATIONS.**

The local noon observation, now taken, furnishes the most reliable data whereby the humidity at different stations may be compared. It is important that these observations be made as accurately as possible. In reading wet-bulb thermometers and calculating humidity, it should be borne in mind that the possibility of error lies almost wholly in one direction. Individual entries and means of relative humidity may be too high; rarely, if ever, too low. There are at least four possibilities of error in a positive direction:

(1) The psychrometer may not be whirled long enough to allow the wet bulb to reach the lowest point. (2) The cloth covering may be dirty, and, if so, evaporation will not be as free as it should be. (3) When the air is very dry the water may entirely evaporate from the wet bulb before the lowest point is reached. (4) In times of continued cold weather there may be a relatively thick coating instead of a film of ice on the wet bulb, and the readings will be too high.

Existing instructions regarding whirling the psychrometer, cleanliness of wet-bulb covering, and the best procedure under all conditions, cover all these points very fully. It seems desirable to add, in regard to (3), that this condition may be met by using cold water and swinging the psychrometer gently at first to set up an initial cooling before commencing the more vigorous whirling which tends to throw off any surplus water in the covering. Regarding (4), the temperature of the water should be as near the freezing point as possible, and the condition of the wet bulb noted before whirling; dipping the bulb into cold water for a moment should remove excess ice.

**GOVERNMENT EMPLOYEES PROHIBITED FROM HOLDING CERTAIN CITY OR TOWN POSITIONS.**

The following extract from a reply of the Acting Secretary of Agriculture to an inquiry, relative to the permissibility of the official in charge of a certain Weather Bureau Station accepting the position of auditor of the city in which he is located, is quoted for the information of officials and employees:

Executive orders January 17 and 28, 1878, now in force and effect prohibit Federal employees from holding offices in a city or town by whatever name locally known, whether filled by election or appointment and whether with or without salary, except positions on boards of education, school committees, public libraries, religious or eleemosynary institutions incorporated or established or sustained by State or municipal authority. \* \* \* is therefore prohibited from accepting office of city auditor. This is in accordance with recent ruling of Civil Service Commission in a similar case.

LARGE WEATHER MAP BASES FOR DEMONSTRATION.

The Weather Bureau has just secured a limited number of copies of attractive large weather map bases. These maps are much like the glass map bases, after one of which the lithograph base was modelled. Large parts of Canada and Mexico are included. They are printed in blue on heavy white paper, size about 3 by 5 feet.

Where these maps will prove of considerable value is in lecture and class work in connection with demonstrations of weather maps or other data which require a large base map of the United States.

They are well adapted to the use of colored crayons or chalk. At the Signal Corps School of Meteorology in Texas, in 1918, these maps were used daily for reproducing the weather map for classroom discussion. The features of the map could easily be seen, even where there were 100 students in a class. The colors used were as follows: Pressure data and isobars, black or gray; temperatures and isotherms, red; rainfall, brown or green; wind arrows, blue, green, black, and brown, representing clear, partly cloudy, cloudy, and rain or snow, respectively.

On account of the relatively large cost of these maps, it has not been found advisable to issue them generally to stations. They may be procured by requisition, however, when needed for demonstration purposes.

STREET-CAR FARES.

As amended by Department Memorandum No. 271, mailed to stations April 18, Fiscal Regulations, paragraph 83, apparently prohibits reimbursement of street-car or other fares between hotel and any place of work to employees receiving a per diem in lieu of subsistence, such fares being considered a subsistence expense. A recent decision of the Comptroller indicates that such fares are a subsistence expense when the traveler goes from his abode or place where meals are taken to an office or other headquarters for duty; but when he goes directly from his abode to some point other than headquarters to attend to official business, the car fare officially necessary is a transportation expense, and he will be reimbursed therefor.

The Auditor will require a statement in each travel account, when fares are not stated in detail, that certain fares (to be indicated by date or reference mark) were expended in official work.

USE OF LOGARITHMS IN COMPUTING PERCENTAGES AND AVERAGES.

The official in charge of the Milwaukee station submits the following suggestion:

Considerable time can be saved and accurate results obtained by using a table of logarithms in obtaining the percentages and averages at the foot of page 18, Form 1001. Full instructions for the use of logarithmic tables will be found

at the back of the little volume of tables by Crockett, which is in most station libraries. For the benefit of a few who may not be familiar with the use of logarithms, it may be said that the instructions referred to can be mastered with no more effort than would be required to perform the division on page 18 for one month by the old method of long division.

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**RESTORATION OF FURLOUGHED EMPLOYEES.**

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The following employees of the Weather Bureau who were furloughed on account of naval or military service have been restored to duty and assigned to the stations indicated:

Arnold, James W .....	Broken Arrow, Okla.
Bottiger, Walter M.....	Baltimore, Md.
Butler, Benjamin F.....	Washington, D. C.
Callen, Arthur H. C.....	Denver, Colo.
Clarke, Walter D.....	Royal Center, Ind.
Dague, Charles I.....	Dallas, Tex.
Day, Wilfred P.....	Chicago, Ill.
Frank, Earl B.....	Washington, D. C.
Herman, Kennen D.....	Springfield, Ill.
Hickmon, Walter C.....	Little Rock, Ark.
Jenkins, Otis.....	Peoria, Ill.
Jones, Matthew G.....	Savannah, Ga.
Murphy, George P.....	Grand Junction, Colo.
Ray, Clifton L.....	Leesburg, Ga.
Scott, Edward B.....	Madison, Wis.
Smith, Jesse W.....	Montgomery, Ala.
Tait, George W.....	Port Huron, Mich.
Wells, Roy A.....	Washington, D. C.
Yoder, Lee O.....	Bismarck, N. Dak.

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**REMINDERS.**

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It is the intention to publish as frequently as may be advisable, possibly each month, brief paragraphs inviting attention to forms and reports that are required to be submitted periodically, and to such parts of the Regulations as are frequently only partially observed or entirely overlooked. It is hoped that these reminders will be of assistance to station officials, and prevent much unnecessary correspondence in calling for missing information and for unfurnished reports. However, it must be understood that these notes are intended merely as helpful suggestions, and do not relieve officials from the responsibility of having systems of their own which will accomplish prompt and full compliance with existing regulations.

Station preference cards are to be rendered June 1, for all station employees (see S. R. 150-R).

Form 4020-Mis.—Estimates for Forms, should be submitted not later than June 15 (see S. R. 789).

Semiannual requisitions for supplies should be made not later than June 15 (see S. R. 792).

Probationary reports should be rendered promptly when due. An average of

more than twenty letters is required each month in calling on stations for overdue reports.

Requisitions for parts of instruments should be made on Form 2044-Supplies, and not by letter. A description of the parts desired, the nature of the defects to be remedied, and such other explanatory notes as may be necessary can be written on the requisition form.

The provisions of paragraph 747, relative to reporting official name and serial number of instruments, are frequently overlooked.

DEATHS.

Mr. John K. Hooper, meteorologist, died at Burlington, Vt., on April 4, 1919. Mr. Hooper was born at Portland, Me., on April 17, 1870, and entered the Weather Bureau as aerial observer on March 9, 1898. He was a member of what was known as the "Kite Class," a group of assistant observers assigned to Arlington, Va., for instruction in kite flying, when the aerial observation work by the bureau was begun. Later he served successively at Sault Ste. Marie, Detroit, Philadelphia, and New Haven as assistant, and at Canton and Burlington as official in charge. He was in charge of the latter station from September 17, 1909, until his death.

Mr. James F. Collins, skilled mechanic, died at Washington D. C., on April 28, 1919. Mr. Collins was born in New York City on February 28, 1842, and entered the Weather Bureau on November 1, 1891, as carpenter. He was in charge of the carpenter shop at the Central Office from September 23, 1907, until his death.

CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of April, 1919, is published for the exclusive information of employees of the Weather Bureau:

Appointments, promotions, reductions, etc.

Names.	Stations.	Remarks.
Andrus, Clarence G. ....	New Haven, Conn. ....	Observer, restored to duty on April 25, 1919, from furlough without pay on account of military duty.
Arnold, James W. ....	Broken Arrow, Okla. ...	Assistant observer, restored to duty on May 1, 1919, from furlough without pay on account of military duty.
Bailey, Oscar L. ....	Raleigh, N. C. ....	Appointed printer at \$1,000.
Bair, Jefferson L. ....	Washington, D. C. ....	Skilled artisan, removed from the rolls for the good of the service.
Baker, James R.* ....	Ellendale, N. Dak. ....	Appointed assistant observer at \$900, temporarily, pending certification of eligibles.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Bottiger, Walter M. <sup>1</sup> ....	Baltimore, Md.....	Restored to duty on April 9, 1919, from furlough without pay on account of military duty, and promoted to messenger boy at \$720 from \$600.
Bradley, James A.*.....	New York, N. Y.....	Assistant observer, resigned; record, excellent.
Burrough, Hollis O.....	Oklahoma, Okla.....	Messenger boy, resigned; record, excellent.
Butler, Benjamin F.....	Washington, D. C.....	Restored to duty on April 21, 1919, from furlough without pay on account of military duty, and promoted to clerk at \$1,400 from \$1,200.
Callen, Arthur H. C....	Denver, Colo.....	Assistant observer, restored to duty on April 21, 1919, from furlough without pay on account of military duty.
Clifton, Roy C.....	Taylor, Tex.....	Reduced to messenger boy at \$600 from \$720, without prejudice, because of return of an employee from military duty.
Collins, James F.....	Washington, D. C.....	Skilled mechanic (carpenter), died April 28, 1919.
Cooper, Miss Laura B.*.	Eureka, Cal.....	Appointed apprentice at \$600, temporarily, pending certification of eligibles; temporary appointment as assistant observer at \$900 terminated.
Curtis, Richard W.....	Washington, D. C.....	Promoted to laborer (unskilled) at \$720 from \$660.
Dague, Charles I.....	Dallas, Tex.....	Restored to duty on April 21, 1919, from furlough without pay on account of military duty, and promoted to observer at \$1,260 from \$1,200.
Day, Wilfred P.....	Chicago, Ill.....	Assistant observer, restored to duty on May 1, 1919, from furlough without pay on account of military duty.
Diffin, William T.....	Pensacola, Fla.....	Apprentice, on furlough for military duty, resigned; record, excellent.
Dorman, Louis.....	Cape May, N. J.....	Observer, reduced at his request to \$720 from \$1,260; to serve four hours a day.
Doyle, Milburn R.*.....	Little Rock, Ark.....	Assistant observer, resigned; record, good.
Eldredge, Elmer G.*.....	Salt Lake City, Utah...	Assistant observer, resigned; record, good.
Ferry, Harry L.*.....	Baltimore, Md.....	Appointed messenger boy at \$600; appointment to terminate April 8, 1919.
Frank, Earl B.....	Washington, D. C.....	Clerk, restored to duty on April 14, 1919, from furlough without pay on account of military duty.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Gardner, Otis E.....	Washington, D. C.....	Clerk (draftsman), transferred to the Bureau of Public Roads.
Glover, George J.....	Washington, D. C.....	Promoted to skilled artisan at \$840 from laborer (skilled) at \$720.
Grasse, Mrs. Harriet R.	Moorhead, Minn.....	Appointed station agent at \$720.
Grayson, Samuel F.....	Meridian, Miss.....	Appointed apprentice at \$480, by reinstatement.
Guthrie, Leon J., jr.....	Fort Smith, Ark.....	Appointed apprentice at \$600, by reinstatement; temporary appointment as assistant observer at \$900 terminated.
Haines, William C.....	San Juan, P. R.....	Promoted to observer at \$1,260 from assistant observer at \$1,080.
Hannegan, T. Wayne*..	Seattle, Wash .....	Messenger boy, resigned; record, good.
Hardy, Erle L.*.....	Santa Fe, N. Mex.....	Appointed assistant observer at \$1,080, temporarily, pending certification of eligibles.
Herman, Kennen D....	Springfield, Ill.....	Assistant observer, restored to duty on April 21, 1919, from furlough without pay on account of military duty.
Hessler, Frank M.*.....	Duluth, Minn.....	Assistant observer, resigned; record, excellent.
Hickmon, Walter C.....	Little Rock, Ark.....	Assistant observer, restored to duty on May 1, 1919, from furlough without pay on account of military duty.
Hooper, John K.....	Burlington, Vt.....	Meteorologist, died April 4, 1919.
Hughes, Everett H.....	Washington, D. C.....	Promoted to skilled mechanic at \$1,200 from captain of watch at \$1,000.
Ivey, Clifford A.*.....	Dallas, Tex.....	Assistant observer, resigned; record, good.
Jenkins, Otis.....	Peoria, Ill.....	Assistant observer, restored to duty on May 1, 1919, from furlough without pay on account of military duty.
Jones, Matthew G.....	Savannah, Ga.....	Messenger, restored to duty on April 21, 1919, from furlough without pay on account of military duty.
Lansdale, Roger F.....	Washington, D. C.....	Reduced to clerk at \$1,000 from \$1,200, without prejudice, because of return of an employee from military duty.
LeFors, Miss Clarice M.	Cheyenne, Wyo.....	Appointed messenger at \$480; temporary appointment terminated.
Ling, Lawrence F.....	Drexel, Nebr.....	Laborer (unskilled), resigned; record, excellent.
Loris, Philip F.*.....	Washington, D. C.....	Appointed messenger at \$480, temporarily, pending certification of eligibles.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Lowe, George W.*.....	Portland, Oreg.....	Printer, temporary appointment terminated.
McInnis, James W.....	Meridian, Miss.....	Apprentice, probationary appointment terminated on account of unsatisfactory service.
Mahaffey, Cecil E.*.....	Greenville, S. C.....	Appointed messenger at \$480, temporarily, pending certification of eligibles.
Martin, Hugh E.....	Springfield, Mo.....	Appointed messenger boy at \$480; temporary appointment terminated.
Mattison, Edward M....	Washington, D. C.....	Reduced to clerk at \$1,200 from \$1,400, without prejudice, because of return of an employee from military duty.
Maxwell, Paul F.....	North Head, Wash.....	Observer, resigned; record, good.
Meiss, Arthur W.*.....	Sacramento, Cal.....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Mullen, John P., jr.....	Galveston, Tex.....	Appointed apprentice at \$600, by reinstatement.
Muschlitz, George R.*..	Washington, D. C.....	Messenger boy, temporary appointment terminated.
Naughton, Percy J.....	Port Arthur, Tex.....	Promoted to observer at \$1,260 from assistant observer at \$1,080.
Pearre, Buford D.....	Nashville, Tenn.....	Messenger boy, on furlough for military duty, resigned; record, excellent.
Pepera, John A.....	St. Paul, Minn.....	Reduced to messenger boy at \$600 from \$720, without prejudice, because of return of an employee from military duty.
Prichard, Charles C.....	Port Huron, Mich.....	Apprentice, resigned; record, good.
Ray, Clifton L.....	Leesburg, Ga.....	Restored to duty on May 1, 1919, from furlough without pay on account of military duty, and promoted to assistant observer at \$1,080 from \$900.
Rieder, Fritz*.....	Santa Fe, N. Mex.....	Assistant observer, resigned; record, good.
Roth, Walter T.*.....	La Crosse, Wis.....	Apprentice, temporary appointment terminated.
Severtson, Mrs. Winifred M.*	Minneapolis, Minn.....	Messenger, resigned; record, good.
Spangler, Hugh D.*....	Bismarck, N. Dak.....	Assistant observer, resigned; record, good.
Spangler, Lewis L.*....	Los Angeles, Cal.....	Messenger, resigned; record, good.
Spear, Max F. <sup>1</sup> .....	Terre Haute, Ind.....	Promoted to messenger boy at \$600 from \$480.
Spear, Max F.....	Terre Haute, Ind.....	Reduced to messenger boy at \$480 from \$600, without prejudice, because of return of an employee from military duty.

Appointments, promotions, reductions, etc.—Continued.

Names.	Stations.	Remarks.
Spenny, Blake.....	Chicago, Ill.....	Appointed printer at \$1,000.
Spiess, Ernest F.....	Portland, Oreg.....	Appointed messenger boy at \$480; temporary appointment terminated.
Stephens, Jerome T.....	Topeka, Kans.....	Messenger boy, resigned; record, good.
Sweetney, John.....	Washington, D. C.....	Promoted to laborer (unskilled) at \$660 from \$600.
Sweney, Chauncey L.*..	Yellowstone Park, Wyo	Messenger boy, resigned; record, fair.
Tait, George W.....	Port Huron, Mich.....	Messenger, restored to duty on May 1, 1919, from furlough without pay an account of military duty.
Taylor, Julian A.....	Washington, D. C.....	Messenger boy, appointment terminated.
Teal, Raymond M.....	Los Angeles, Cal.....	Appointed messenger boy at \$480, by reinstatement.
Thomas, Joseph M.....	Duluth, Minn.....	Messenger boy, resigned; record, good.
Udden, Anton D.....	Davenport, Iowa.....	Observer, on furlough for military duty, resigned; record, good.
Utsler, Leslie E.....	Drexel, Nebr.....	Appointed laborer (unskilled) at \$600.
Weidman, Frank B.....	Wichita, Kans.....	Reduced to messenger boy at \$480 from \$600, without prejudice, because of return of an employee from military duty.
Wells, Roy A.....	Washington, D. C.....	Assistant observer, restored to duty on April 15, 1919, from furlough without pay on account of naval duty.
Wyatt, William W.....	Honolulu, Hawaii.....	Observer, restored to duty on April 2, 1919, from furlough without pay on account of military duty.
Yoder, Lee O.....	Bismarck, N. Dak.....	Assistant observer, restored to duty on April 23, 1919, from furlough without pay on account of military duty.
Blystone, Mrs. Lillian H.*	Huron, S. Dak.....	} Assistant observer, temporary appointment terminated.
Catlin, Charles L.*.....	Minneapolis, Minn....	
Copeland, Charles W.*..	Little Rock, Ark.....	
Howard, Mrs. Marjorie M.*	New York, N. Y.....	
McLean, Donald V.*.....	Buffalo, N. Y.....	
Morell, Ferdinand W.*..	Denver, Colo.....	
Sechawer, Elmer G.*....	Milwaukee, Wis.....	
Smith, Mrs. Hazel C.*...	Grand Rapids, Mich...	
Spenny, Blake*.....	Chicago, Ill.....	
Teal, Raymond M.*.....	Los Angeles, Cal.....	} Appointed apprentice at \$480; temporary appointment terminated.
Bratton, Edwin.....	Grand Haven, Mich....	
Ghiselin, Thomas B.....	Norfolk, Va.....	
Griffiths, Alfred E.....	Huron, S. Dak.....	
Lee, Harold F.....	Syracuse, N. Y.....	

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Cole, Connell E.*.....	Seattle, Wash.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Davis, Earl R.*.....	Oklahoma, Okla.....	
Fennelly, Francis F.*...	Kansas City, Mo.....	
Mellichamp, Pierre*....	Columbia, S. C.....	
Rhodes, Frank J.*.....	Denver, Colo.....	
Shehi, Willis S.*.....	Topeka, Kans.....	
Shomo, Harvey*.....	Washington, D. C.....	

\* Indicates temporary appointment.

<sup>1</sup> Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Ahearn, Frank H.....	Hatteras, N. C.....	Philadelphia, Pa., assistant.
Andrus, Clarence G.....	New Haven, Conn.....	Lansing, Mich., assistant.
Dorman, Louis.....	Palestine, Tex.....	Cape May, N. J., in charge.
Fassig, Oliver L.....	Baltimore, Md.....	San Juan, P. R., in charge.
Haines, William C.....	Washington, D. C.....	San Juan, P. R., assistant.
Hartwell, F. Eugene....	San Juan, P. R.....	Burlington, Vt., in charge.
Hossler, William H.....	Port Arthur, Tex.....	Palestine, Tex., in charge.
Jones, Ernest L.....	Charleston, S. C.....	Montgomery, Ala., assistant.
Naughton, Percy J.....	New Orleans, La.....	Port Arthur, Tex., in charge.
Plummer, Ira C.....	Springfield, Ill.....	Duluth, Minn., assistant.
Thiessen, Alfred H.....	Washington, D. C..... (temporarily.)	Baltimore, Md., in charge.

*A. V. Marvin.*

Chief of Bureau.

UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

MAY, 1919.

**VOLUNTEERS FOR ASSIGNMENTS AS OFFICIAL IN CHARGE AT TATOOSH ISLAND, WASH., AND AS ASSISTANT AT HONOLULU, HAWAII.**

Opportunity is given hereby to assistant observers and observers at \$1,080 and \$1,260 per annum to volunteer for assignment to Tatoosh Island, Wash., for duty as official in charge, with promotion to \$1,260 and \$1,440, respectively, at the time of transfer.

It is desired that the person selected should have had not less than two years' service in the Weather Bureau. Some knowledge of telegraphy is required, and he should be proficient in standard observational work. The official in charge at Tatoosh Island is furnished with quarters, fuel, and light, and the Weather Bureau building has ample room for a married man with small family. Tatoosh Island is the extreme northwestern terminal point of the Tatoosh Island-Port Angeles telegraph line, and its position renders it important as a station from which advance information is received and reported as to vessels entering and leaving Puget Sound.

The man selected for this detail will be expected to remain at Tatoosh Island for at least two or three years.

Also, opportunity is given hereby to assistant observers at \$1,080 per annum to volunteer for assignment to Honolulu, Hawaii, for duty as second assistant, with promotion to \$1,260 per annum, effective at the time of transfer. Observers at \$1,260 may also volunteer, but no immediate promotion would result.

It is desirable that the person selected shall have had not less than one year's service in the Weather Bureau—preferably two or more. He will be expected to remain at Honolulu from two to three years, and it is possible that before the expiration of this period he will be made first assistant at that station. No assurance can be given, however, as to this latter phase of the matter, nor can any definite statement be made as to further advancement in salary beyond \$1,260 during the assignment there, as such action would depend entirely on the exigencies of the service and the condition of our salary fund, together with the character of services rendered by the employee concerned.

Honolulu is an important climatological center, and assignment to that station, as indicated above, should prove of material value to a young man desiring to gain additional experience with which to fit himself better for future service in the bureau. No quarters are provided for assistants at that station.

Temporary employees are not eligible for the foregoing assignments.

#### RESTORATION OF FURLOUGHED EMPLOYEES.

The following employees of the Weather Bureau who were furloughed on account of naval or military service have been restored to duty and assigned to the stations indicated:

Brooks, Thomas R.....	Washington, D. C.
Diamond, Jay G.....	Helena, Mont.
Parker, Harold P.....	Madison, Wis.
Taylor, Arthur D.....	Portland, Oreg.

#### POSITIONS FOR DISCHARGED SOLDIERS.

The following memorandum (No. 276) from the Secretary of Agriculture is brought to the attention of station officials and employees, with the earnest request that they render all possible assistance in securing profitable employment for discharged soldiers:

The War Department, through General March, has announced that, during each coming month, there will be returned to this country and to private life 445,000 of the troops still enrolled. This is an average of about 14,500 per day. Col. Arthur Woods, recently appointed Assistant to the Secretary of War, has been charged particularly with the duty of looking after the interests of the returning soldiers; and all officers and employees of the department should cooperate with him in this undertaking to the fullest possible extent. The task is one of far-reaching importance during the period of transition from a war to a peace basis and should command the active interest and support of all thorough-going Americans who naturally wish to see that those who served the Nation in the war for American rights and civilization are given every assistance in securing useful employment.

The members of the field force of the department, especially, can in many instances, without undue interference with the performance of their official duties, render helpful service by locating positions in their communities which returned soldiers are qualified to fill and by putting soldiers in touch with such positions. A great deal already has been done in this direction, but much more remains to be done. Additional efforts will have to be put forth if complete success is to be secured in reintroducing the soldier and sailor into peaceful industry. Find out how many men may be required in your community; ascertain specifically what qualifications are necessary; inquire as to the rates of pay; and then transmit this information, preferably in writing, to the local bureau for returning soldiers and sailors, to the nearest United States employment agency, or to the State farm help specialist. In order that the matter may be properly followed up, a carbon copy of the letter giving this information should be forwarded direct to Col. Arthur Woods, Assistant to the Secretary of War, War Department, Washington, D. C.

I am sure that all members of the Department of Agriculture will do everything in their power to aid in this nation-wide movement.

**REINSTATEMENT OF MILITARY EMPLOYEES.**

The Civil Service regulations pertaining to reinstatements were changed by Executive Order dated May 16, 1919, the object of the order being to harmonize and consolidate provisions relating to the reinstatement of veterans, their widows, and army nurses. The amending regulation reads as follows:

1. A person separated without delinquency or misconduct from a competitive position or from a position which he entered by transfer or promotion from a competitive position or to accept another appointment in the executive civil service may be reinstated subject to the following limitations:

(a) Unless otherwise provided hereinafter a person may be reinstated only to the department or independent Government establishment from which separated and upon requisition made within one year from the date of his separation.

(b) A person who served in the Civil War or the War with Spain and was honorably discharged or his widow or an army nurse of either war, separated heretofore from the competitive classified service, may be reinstated in the department or independent establishment from which separated without time limit. If hereafter separated, reinstatement may be made within five years from the date of separation.

(c) A soldier, sailor, marine, or army nurse of the War with Germany formerly in the competitive classified service may be reinstated in any part of the competitive classified service within five years from the date of honorable discharge from the military service if he has the required fitness to perform the duties of the position to which his reinstatement is sought.

(d) The widow of a veteran of the War with Germany formerly in the competitive classified service who was the wife of such veteran while he was in the military service may be reinstated in any part of the competitive classified service within five years from the date of termination of her husband's military service by death or honorable discharge.

(e) No person in any of the foregoing groups may be reinstated to a position requiring an examination different from that required in the position from which he was separated without passing an appropriate examination.

The Executive Order of July 18, 1918, published in the July issue of TOPICS AND PERSONNEL, has been revoked.

**MONTHLY WEATHER REVIEW.**

The following are some major topics to be treated in the Monthly Weather Review, May to August numbers, 1919.

May: The trans-Atlantic flight; agricultural meteorology.

June: Thunder-storms.

July: Climatology.

August: Clouds, and cloud observation.

Papers or groups of papers on the following subjects also are ready in hand or planned for the next few numbers of the Review: Auroras; general circulation of the atmosphere; wind and pressure maps of the free air; dynamics of cyclones and anticyclones; clouds in local forecasting; hydrology; and airplanes and local weather conditions.

REMINDERS.

The fiscal year ends June 30. Reimbursement accounts for station expenses for the last quarter should be submitted on July 1, or as promptly thereafter as possible.

In the preparation of vouchers involving expenses for repairs to wagons or other vehicles used by the bureau, the vouchers should show that the vehicle is the property of the Government. Repairs, at Government expense, can not be made to rented vehicles, etc., unless specifically authorized in the contract or agreement therefor.

The cost of tickets obtained with transportation requests should be indicated on the coupon mailed to the Central Office. This is omitted frequently, which results in delays in auditing reimbursement and railroads accounts.

All unused transportation requests expire with June 30, and should be returned to the Central Office as soon thereafter as practicable.

Bills of lading must be signed with pen and ink or indelible pencil. Signatures by stamp or with lead pencil are invalid. The title of the signer should be given in every case.

Form 4066-Mis., Annual Report on Text and other Books on Station, must be rendered on June 30. The numbers of all books that have catalogue numbers should be entered thereon in serial order.

The large size "Daily River Record, Month of....." form is being reprinted. Requisitions therefor may be made after July 1.

DEATH.

Mr. John P. Church, clerk, died May 17, 1919. Mr. Church was born at Whiting, Vt., on September 12, 1840. He was a veteran of the Civil War and was in active service from July, 1862, to July, 1865, as a member of Battery I, First Michigan Light Artillery Volunteers. He was appointed to a clerkship in the Department of Agriculture on February 27, 1882, and was transferred to the Weather Bureau on June 15, 1892. The major part of his service in the Weather Bureau was in the Printing Division. He was chief of that division from April 1, 1897, to October 1, 1913, when he was relieved and reduced to clerk at his own request because of advancing years and ill health. A serious physical breakdown forced him to discontinue work altogether in November, 1918, and from that time until his death he was on furlough without pay.

## CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of May, 1919, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Bliss, Miss Elveta L.*...	Philadelphia, Pa.....	Assistant observer, resigned; record, good.
Brelia, Clarence E.*....	Canton, N. Y.....	Messenger boy, resigned; record, fair.
Brown, Matthew, jr.*...	Richmond, Va.....	Messenger, resigned; record, good.
Cade, William R.....	Terre Haute, Ind.....	Meteorologist, resigned; record, excellent.
Callin, Clement C.....	Trenton, N. J.....	Observer, removed from the rolls for the good of the service.
Cebull, Mrs. Hattie A.*.	Sandusky, Ohio.....	Appointed assistant observer at \$900, temporarily.
Church, John P.....	Washington, D. C.....	Clerk, died May 17, 1919.
Clarke, Walter D. ....	Norfolk, Va.....	Messenger boy, on furlough for military duty, resigned; record, excellent.
Cole, Connell E.*.....	Seattle, Wash.....	Messenger boy, resigned; record, good.
Conwell, Miss Anna A..	Chicago, Ill.....	Appointed clerk at \$1,000; temporary appointment as assistant observer at \$1,080 terminated.
Cullen, Edward P.*....	Philadelphia, Pa.....	Assistant observer, resigned; record, good.
Day, Elden W.....	Juneau, Alaska.....	Promoted to observer at \$1,260 from assistant observer at \$1,080.
Dietrich, E. Walter*....	Washington, D. C.....	Messenger boy, temporary appointment terminated.
Diffly, Hugh A.*.....	Montgomery, Ala.....	Assistant observer, resigned; record, good.
Fennelly, Francis F....	Kansas City, Mo.....	Appointed messenger boy at \$480; temporary appointment terminated.
Finch, Verne E.....	Cincinnati, Ohio.....	Assistant observer, on furlough for military duty, resigned; record, excellent.
Frank, Earl B.....	Washington, D. C.....	Clerk, transferred to the War Department.
Frazure, John C.*.....	Miami, Fla.....	Assistant observer, resigned; record, good.
House, Miss Tommie*..	Lexington, Ky.....	Messenger, temporary appointment terminated.
Jennings, Thorp B.....	Topeka, Kans.....	Meteorologist, reduced at his request to \$1,080 from \$1,620, to serve four hours a day.
Knight, Norman L.....	Davenport, Iowa.....	Appointed assistant observer at \$1,080.
Lansdale, Roger F. <sup>1</sup> ....	Washington, D. C.....	Promoted to clerk at \$1,200 from \$1,000.
Loris, Philip F.*.....	Washington, D. C.....	Messenger boy, resigned; record, good.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Mason, Alfred S.....	Washington, D. C.....	Appointed clerk (telegraph operator) at \$1,000.
Meiss, Arthur W.....	Sacramento, Calif.....	Appointed apprentice at \$480; temporary appointment terminated.
Murphy, George P.....	Grand Junction, Colo..	Assistant observer, restored to duty on May 16, 1919, from furlough without pay on account of military duty.
Novick, Max.....	Omaha, Nebr.....	Messenger boy, resigned; record, good.
Owens, Eugene S.....	Augusta, Ga.....	Messenger boy, resigned; record, excellent.
Parker, Harold P.....	Madison, Wis.....	Assistant observer, restored to duty on June 2, 1919, from furlough without pay on account of military duty.
Perry, Harris M.....	Cape Henry, Va.....	Appointed repairman at \$720; temporary appointment terminated.
Peterson, E. Ernest....	San Francisco, Calif....	Assistant observer, resigned; record, excellent.
Peterson, Oscar H.....	Sacramento, Calif.....	Apprentice, on furlough for military duty, appointment terminated.
Rhodes, Frank J.....	Denver, Colo.....	Appointed messenger boy at \$480; temporary appointment terminated.
Rupert, Karl C.....	Portland, Oreg.....	Observer, resigned; record, excellent.
Smith, Jesse W.....	Montgomery, Ala.....	Assistant observer, restored to duty on May 8, 1919, from furlough without pay on account of military duty.
Spencer, Robin E.*....	North Head, Wash.....	Appointed repairman at \$720, temporarily, pending certification of eligibles.
Stadler, Carlisle W.*....	Sandusky, Ohio.....	Assistant observer, resigned; record, good.
Swartz, John R.....	Reading, Pa.....	Appointed messenger at \$480; temporary appointment terminated.
Taylor, Arthur D.....	Portland, Oreg.....	Restored to duty on June 2, 1919, from furlough without pay on account of military duty, and promoted to assistant observer at \$1,080 from \$900.
Thrower, Albert J.*....	Washington, D. C.....	Appointed compositor at \$1,850, temporarily.
Woolard, Edgar W.....	Norfolk, Va.....	Appointed assistant observer at \$1,080.
Bastian, Albert J.*....	Sacramento, Cal.....	} Assistant observer, temporary appointment terminated.
Catlin, Miss Gladys*....	Peoria, Ill.....	
Littlejohn, Walter*....	Grand Junction, Colo..	
Young, Mrs. Clara A.*..	Medford, Oreg.....	
Chambers, William A., jr.*	New York, N. Y.....	} Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Douglas, Harold B.*....	Topeka, Kans.....	
Martin, Leroy V., jr.*..	Miami, Fla.....	
Stevenson, Herbert F.*..	Little Rock, Ark.....	

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Edelblut, Theodore B.*	Augusta, Ga. ....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Johnson, Carl G.*	Minneapolis, Minn. ....	
Mueller, Wilbern H.*	Seattle, Wash. ....	
Smith, Paul C.*	Washington, D. C. ....	
Terrien, Leonard J.*	Duluth, Minn. ....	
Wheeler, Wallace M.*	Richmond, Va. ....	

\* Indicates temporary appointment.  
 † Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Day, Elden W. ....	Davenport, Iowa. ....	Juneau, Alaska, assistant.
Douglas, Harold B. ....	Topeka, Kans. ....	Groesbeck, Tex., assistant.
Math, Frank A. ....	Chicago, Ill. ....	Topeka, Kans., assistant.
Schworm, Stanley S. ....	Boston, Mass. ....	Trenton, N. J., assistant.
Simes, Edward F. ....	Columbus, Ohio. ....	Groesbeck, Tex., assistant.
White, Arkas E. ....	Washington, D. C. ....	Royal Center, Ind., assistant.
Wyatt, William W. ....	Honolulu, Hawaii. ....	Sacramento, Cal., assistant.

*C. H. Marvin.*

*Chief of Bureau.*

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UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

JUNE, 1919.

## VOLUNTEERS DESIRED FOR PREPARING FORECAST CHARTS.

There is need to supplement the clerical force at the Central Office engaged in the preparation of the forecast charts, which involves split-trick duty in the mornings and evenings. The qualifications required for this work are the ability to make small and legible figures and symbols with rapidity, accuracy in calculating temperature and barometer changes, alertness and coolness in performance of work under conditions requiring speed, and familiarity with the observation codes.

An employee calls out a translation of the reports, and those engaged on the preparation of the charts must keep up with the translator.

Opportunity is given to assistant observers having a salary of \$1,080 per annum to volunteer for this assignment, which will carry with it a salary of \$1,200 per annum on the statutory roll. The employee selected will be given ample opportunity to receive instructions in the preparation of the maps before being regularly assigned to such duty.

## LEGISLATION BY CONGRESS.

The bill making appropriations to supply deficiencies for the fiscal year ending June 30, 1919, just passed by Congress, contains the following provision:

SEC. 8. That hereafter no part of the money appropriated by this or any other act shall, in the absence of express authorization by Congress, be used directly or indirectly to pay for any personal service, advertisement, telegram, telephone, letter, printed or written matter, or other device, intended or designated to influence in any manner a Member of Congress to favor or oppose, by vote or otherwise, any legislation or appropriation by Congress, whether before or after the introduction of any bill or resolution proposing such legislation or appropriation; but this shall not prevent officers and employees of the United States from communicating to Members of Congress on the request of any Member or to Congress, through the proper official channels, requests for legislation or appropriations which they deem necessary for the efficient conduct of the public business.

Any officer or employee of the United States who, after notice and hearing by the superior officer vested with the power of removing him, is found to have violated or attempted to violate this section, shall be removed by such superior officer from office or employment. Any officer or employee of the United States who violates or attempts to violate this section shall also be guilty of a misde-

meanor and on conviction thereof shall be punished by a fine of not more than \$500 or by imprisonment for not more than one year, or both.

All officers and employees of the Weather Bureau should comply strictly with the terms of the provision.

\$240 INCREASE FOR NEW EMPLOYEES.

Numerous requests are received from station officials that new appointees be given the \$240 bonus at the time of their appointment. Such action is not possible, as new employees can not be given this extra compensation at the time of appointment under the wording of the act of Congress providing the \$240 bonus, which reads as follows:

That \* \* \* where an employee, whether previously in the service or not, has entered the service since June 30, 1918, whether such employee has received an increase in salary or not, such employees shall be granted the increased compensation provided herein only when and upon the certification of the person in the legislative branch or the head of the department or establishment employing such persons of the ability and qualifications personal to such employees as would justify such increased compensation.

It is obvious that a recommendation can not be made to the Secretary in the cases of new employees until after they have served a sufficient length of time to demonstrate that the character of their services justifies such action. Furthermore, according to regulations, the promise of the \$240 bonus should not be made to prospective appointees as an inducement for acceptance.

RESTORATION OF FURLOUGHED EMPLOYEES.

The following employees of the Weather Bureau who were furloughed on account of military or naval service have been restored to duty and assigned to the stations indicated:

- Andrus, Clarence G ..... Lansing, Mich.
- Bemis, Charles N ..... New York, N. Y.
- Ellison, Eckley S ..... Scranton, Pa.
- Gross, Philip H ..... Atlantic City, N. J.
- Hayden, Francis S ..... Rochester, N. Y.
- Hersey, Henry B ..... Milwaukee, Wis.
- Laskowski, Bernard R ..... Alpena, Mich.
- Molyneux, Harold L ..... St. Joseph, Mo.
- Rogers, Roy J ..... Baltimore, Md.
- Whitney, Frank B ..... Denver, Colo.

WIND DIRECTION AT TIME OF OBSERVATION.

At a recent conference of station officials visiting the Central Office the question of reporting the wind direction at the time of observation was discussed. It appeared to be the general opinion that observers usually record the direction as that occurring at the moment of observation regardless of the fluctuations in the indications of the wind vane that may exist at the moment. It is prob-

ably unnecessary to point out to the observing force that the direction of the wind as shown on the triple-register or by the wind vane at any moment may be materially different from that actually prevailing at the time, due to the effect of oscillation.

It is the very general belief that in reporting the wind direction, particularly for the telegraphic observations, consideration should be given to the direction prevailing during the previous five minutes in order that no temporary deviation from the true direction shall be recorded. Attention of course will be given to conditions attending a permanent shift of the wind, which may occur at the time of observation, due to the approach or passage of barometric disturbances inducing actual changes in the wind direction. Under such conditions the direction at the moment of observation, if indicative of a new but permanent direction, will be recorded.

AMENDMENTS TO REGULATIONS.

Amendments to Regulations have been announced as follows:

USE OF MOTOR CYCLES AND AUTOMOBILES FOR OFFICIAL TRAVEL.

Paragraph 86 (j) by the insertion of the following language between the words "vehicles" and "support" in the 10th line of the paragraph, "unless granted reimbursement for such use at mileage rates (not exceeding 3 cents per mile for a motor cycle and 7 cents per mile for an automobile)."

This amendment is based upon a provision in the act making appropriations for the Department of Agriculture for the fiscal year ending June 30, 1920.

Paragraph 214 of the Administrative Regulations also is amended to conform to the increased mileage rates, which were formerly 2 cents for motor cycles and 6 cents for automobiles. The provisions of paragraph 214 must be complied with in all authorizations for travel by motor cycles or automobiles.

Addition to paragraph 5 (Fiscal Regulations):

Hereafter each letter authorizing travel will specify both the permanent station and the temporary headquarters, if any, of the employee in whose favor the letter is drawn. Paragraph 5 of the Fiscal Regulations is amended accordingly.

Addition to paragraph 86 (o):

No employee shall be assigned to temporary duty and allowed subsistence expenses if, at any time, it is probable that the assignment will ultimately be made permanent. Whenever assignment to temporary duty and allowance of subsistence expenses in connection with such assignment is followed by designation of such place of temporary duty as the permanent station of an employee, a report of the circumstances shall be immediately made to the Secretary, the report to be accompanied by a certificate of the chief of the bureau involved that at the time the temporary assignment was made it was not and could not have been anticipated that permanent headquarters would be established at the same point.

Addition to paragraph 86 (p):

No employee who has been allowed subsistence expenses in connection with an assignment to temporary duty shall receive any allowance for packing, crating, freight, or drayage charges for the transfer of his household effects or other personal property used in official work, if such assignment be thereafter made permanent, except upon specific approval, in advance, by the Secretary.

Paragraph 86 (r): Omit "he must not, under any circumstances, ship more than 5,000 pounds on the department bill of lading" and insert in lieu thereof "except that in cases where a car can be secured at a cost not greater than the less-than-carload rates for 5,000 pounds, a carload shipment may be made on a departmental bill of lading and the excess over 5,000 pounds included, settlement for the excess to be calculated on the proportionate cost of the entire shipment, and draft or money-order in favor of the carrier to be transmitted to the department by the employee with the memorandum copy of the bill of lading, to be used by the department in part payment of the transportation charge."

Printed insertion sheets containing the foregoing amendments will be distributed later.

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LEAVE OF ABSENCE FORMS FOR STATION USE PRINTED ON GREEN PAPER.

Leave of absence forms for station use printed on white paper have been discontinued. Forms printed on *green* paper have been substituted for all department employees in the field, white forms being used for Washington employees. It is the desire that the supply of white forms at each station be used until exhausted. Green forms will be supplied on all future requisitions.

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SICK LEAVE.

Employees are reminded that sick leave can not be anticipated or granted in advance. Paragraph 124 of Administrative Regulations stipulates that applications for sick leave (when in excess of two days) must be accompanied by a certificate of the attending physician. As the prescribed form requires the physician to certify that the employee was under his professional care for the definite period of leave and that *during such time was incapacitated for official work* it is obvious that such a certificate can not be executed until after the expiration of the sick period. It sometimes happens that an employee must undergo treatment or an operation for which prior arrangements must be made. In such cases the facts should be reported by letter in order that the Central Office may be informed of the prospective absence and provision made for the performance of the absentee's duties, if necessary.

Other features often overlooked are that sick leave can be taken before annual leave, and that when sickness in excess of two days

occurs within a period of annual leave, the period of illness may, under prescribed conditions, be charged to sick leave (paragraphs 120 and 129, Administrative Regulations).

DEATHS.

Mr. John R. Sage, 86, died May 28, 1919. By act of the Twenty-third General Assembly of Iowa, the Iowa Weather and Crop Service was established and Mr. Sage was appointed its first director in 1890. He was assisted by George M. Chappel of the Signal Corps, in charge of the Des Moines station, in organizing the State service. They were among the pioneers in publishing weekly weather crop bulletins. He was successively a pastor, a chaplain in the Army of the Potomac, an editor and publisher of daily newspapers, a contributor to the agricultural press, and a lecturer at county farmers' institutes. In October, 1899, he was appointed Section Director of the Weather Bureau. At the close of 1907 he retired and has since spent his winters mostly in Florida and his summers in Des Moines.

Mr. Thomas Gibson, assistant observer, died at Portland, Oreg., on July 7, 1919. He was born in Philadelphia, Pa., on February 15, 1847. He served in the Ninth United States Infantry from June 5, 1867, to June 5, 1870, and enlisted in the Signal Corps on May 16, 1874. He had continuous service in the Signal Corps until July 1, 1891, when he became a civilian member of the newly organized Weather Bureau. Mr. Gibson had duty at 23 stations either as assistant or official in charge, his entire service with the exception of brief details in Washington, Pittsburgh, and Baltimore, being west of the Mississippi.

CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of June, 1919, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Audigier, Miss Louie E..	Washington, D. C.....	Promoted temporarily to clerk at \$1,200 from \$1,000.
Bastian, Albert J.*.....	Sacramento, Calif.....	Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Baxter, Miss L. Albin..	Lexington, Ky.....	Appointed messenger at \$480.
Beck, Miss Anne L.*....	San Francisco, Calif....	Appointed repairman at \$720, temporarily, pending certification of eligibles.
Bell, Miss Mary E.....	Washington, D. C.....	Promoted temporarily to clerk at \$1,200 from \$1,000.
Bemis, Charles N.....	New York, N. Y.....	Assistant observer, restored to duty on July 1, 1919, from furlough without pay on account of naval duty.
Brockway, Albert L....	Seattle, Wash.....	Observer, resigned; record, excellent.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Brooks, Thomas R.....	Washington, D. C.....	Restored to duty on June 9, 1919, from furlough without pay on account of military duty, and promoted to clerk at \$1,200 from assistant observer at \$1,080.
Brown, Charles R.*.....	Lansing, Mich.....	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Byrd, Bryan*.....	Cape Henry, Va.....	Appointed repairman at \$720, temporarily, pending certification of eligibles.
Christman, Rudolph B..	Drexel, Nebr.....	Appointed laborer (unskilled) at \$600.
Cloud, William S.....	Washington, D. C.....	Promoted to observer at \$1,440 from \$1,260.
Daily, Fabius H.*.....	Cape Henry, Va.....	Designation changed from skilled mechanic to skilled laborer.
Diamond, Jay G.....	Helena, Mont.....	Assistant observer, restored to duty on June 10, 1919, from furlough without pay on account of military duty.
Dudley, John W.*.....	Washington, D. C.....	Appointed laborer (unskilled) at \$600, temporarily.
Ellison, Eckley S.....	Scranton, Pa.....	Restored to duty on June 20, 1919, from furlough without pay on account of military duty, and promoted to assistant observer at \$1,080 from \$900.
Finch, Ruy H.....	Washington, D. C.....	Promoted to meteorologist at \$1,620 from clerk at \$1,400.
Flynn, Bernard P.....	Washington, D. C.....	Appointed messenger boy at \$480, by reinstatement.
Forbes, Miss Elizabeth H	Washington, D. C.....	Promoted to clerk at \$1,200 from \$1,000.
Gallagher, John L.*....	Washington, D. C.....	Appointed fireman at \$720, temporarily, pending certification of eligibles.
Gray, Marshall.....	Washington, D. C.....	Clerk (draftsman), resigned; record, excellent.
Gross, Philip H.....	Atlantic City, N. J.....	Messenger, restored to duty on June 16, 1919, from furlough without pay on account of military duty.
Hawkins, Miss Laura F.	Washington, D. C.....	Clerk, leave of absence without pay from June 4, 1919, to August 31, 1919, inclusive, on account of ill health.
Hazen, Miss Grace*....	Canton, N. Y.....	Appointed messenger at \$480, temporarily, pending certification of eligibles.
Herbert, Hector C.*....	Duluth, Minn.....	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Hersey, Henry B.....	Milwaukee, Wis.....	Restored to duty on July 2, 1919, from furlough without pay on account of military duty, and reduced to meteorologist at \$2,520 from district forecaster at \$2,850, because of preferred assignment.

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*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Hibbard, Foy N.....	Chicago, Ill.....	Observer, resigned; record, good.
Lewis, Ollie L.....	Washington, D. C.....	Promoted to meteorologist at \$1,620 from observer at \$1,440.
LeVanway, Harold L....	Lansing, Mich.....	Messenger boy, resigned; record, excellent.
McCarthy, John C.....	Dayton, Ohio.....	Messenger boy, resigned; record, excellent.
McCarthy, John C.....	Dayton, Ohio.....	Appointed assistant observer at \$1,080.
Mattison, Edward M....	Washington, D. C.....	Promoted to clerk at \$1,400 from \$1,200.
Molen, James P.....	Groesbeck, Tex.....	Appointed assistant observer at \$1,080.
Molyneux, Harold L....	St. Joseph, Mo.....	Apprentice, restored to duty on July 1, 1919, from furlough without pay on account of military duty.
Monroe, Miss Doris V.*.	Washington, D. C.....	Appointed messenger at \$600, temporarily, pending certification of eligibles.
Myers, Herbert J.....	Washington, D. C.....	Clerk, resigned; record, good.
Patrick, Miss Adelaide L.	Washington, D. C.....	Clerk, leave of absence without pay from June 24, 1919, to August 28, 1919, inclusive.
Patrick, Thomas.....	Washington, D. C.....	Promoted to skilled artisan at \$840 from skilled laborer at \$720.
Petersen, Richard*.....	Yellowstone Park, Wyo.	Appointed messenger boy at \$600, temporarily, pending certification of eligibles.
Rauh, Edward L. G.....	Washington, D. C.....	Promoted to supervising instrument maker at \$1,620 from instrument maker at \$1,800.
Rauh, Oscar C.....	Washington, D. C.....	Promoted to instrument maker at \$1,800 from \$1,260.
Reichelt, Carl A.....	Honolulu, Hawaii.....	Observer, resigned; record, excellent.
Russell, Orville E.....	Broken Arrow, Okla...	Observer, resigned; record, excellent.
Seothorn, Cecil R.....	St. Joseph, Mo.....	Appointed messenger boy at \$480; temporary appointment as apprentice terminated.
Scott, Edward B.....	Columbus, Ohio.....	Assistant observer, on furlough for military duty, transferred to the Navy Department. (Restoration to duty in Weather Bureau and assignment to Madison revoked.)
Serodino, Norbert R....	San Diego, Cal.....	Reduced to messenger boy at \$480 from \$600, without prejudice, because of return of an employee from military duty.
Sharp, Miss Mary R.*...	Pueblo, Colo.....	Assistant observer, resigned; record, good.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Shehi, Willis S. ....	Topeka, Kans. ....	Appointed messenger boy at \$480; temporary appointment terminated.
Small, Mrs. Annie E. ....	Washington, D. C. ....	Appointed folder and feeder at \$720.
Stout, Miss Sallie R. ....	Washington, D. C. ....	Promoted to clerk at \$1,200 from \$1,000.
Stowe, Richard J. ....	Hatteras, N. C. ....	Promoted to laborer (unskilled) at \$600 from \$480.
Terrien, Leonard J.* ....	Duluth, Minn. ....	Messenger, resigned; record, good.
Utsler, Leslie E. ....	Drexel, Nebr. ....	Laborer (unskilled), resigned; record, good.
Verket, Oswald. ....	La Crosse, Wis. ....	Apprentice, on furlough for military duty, resigned; record, excellent.
Weidman, Frank B. <sup>1</sup> ....	Wichita, Kans. ....	Promoted to messenger at \$600 from \$480.
Welch, Francis X.* ....	Washington, D. C. ....	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Williams, John L.* ....	Washington, D. C. ....	Fireman, temporary appointment terminated.
Adams, Henry P. ....	Leesburg, Ga. ....	} Promoted to observer at \$1,260 from assistant observer at \$1,080.
Barto, Eugene M. ....	Key West, Fla. ....	
Neylans, Oscar S. ....	Leesburg, Ga. ....	
Schick, Charles O. ....	Groesbeck, Tex. ....	
Hand, Clarence F. ....	Binghamton, N. Y. ....	} Appointed assistant observer at \$1,080; temporary appointment at \$900 terminated.
Neumann, Adolph. ....	St. Paul, Minn. ....	
Plummer, Ira C. ....	Duluth, Minn. ....	
Burrow, Walter B.* ....	Norfolk, Va. ....	} Assistant observer, temporary appointment terminated.
Duflocq, Harold D.* ....	New York, N. Y. ....	
Kellow, Charles H.* ....	Scranton, Pa. ....	
Allen, Edgar W.* ....	Washington, D. C. ....	} Messenger boy, temporary appointment terminated.
Miller, Charles E.* ....	Atlantic City, N. J. ....	
Wheeler, Wallace M.* ..	Richmond, Va. ....	

\*Indicates temporary appointment.

<sup>1</sup> Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Adams, Curtis. ....	Groesbeck, Tex. ....	Houston, Tex., assistant.
Barto, Eugene M. ....	Mobile, Ala. ....	Key West, Fla., assistant.
Fitzgerald, Richard J. ....	Houston, Tex. ....	Dallas, Tex., assistant, pending further orders.
Stewart, William P. ....	Milwaukee, Wis. ....	Terre Haute, Ind., in charge.

*C. H. Marvin.*

Chief of Bureau.

**U. S. DEPARTMENT OF AGRICULTURE**  
**WEATHER BUREAU**  
CHARLES F. MARVIN, Chief

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# **WEATHER BUREAU TOPICS AND PERSONNEL**

**JUNE, 1919**

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## **ASSIGNMENTS OF COMMISSIONED OFFICIALS AND EMPLOYEES**

**JULY 1, 1919**

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**(For the exclusive information of officials and employees of the Weather Bureau.)**

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**WASHINGTON**  
**WEATHER BUREAU**  
1919

**NOTE.**—Assignments based on orders issued to July 1, 1919, inclusive. The names are arranged in accordance with salary grade, except that in all cases the official in charge is first and the first assistant is second. In cases where there are two or more men in the same salary grade who are not either the official in charge or the first assistant the arrangement is made alphabetically.

\* Indicates temporary appointment.

† Furloughed on account of military or naval service.

‡ On leave of absence without pay.

§ Furloughed on account of illness, etc.

• Engaged in solar radiation work.

° On special duty in connection with fruit-frost investigations.

◦ On special duty in connection with fruit-weather work.

CENTRAL OFFICE ASSIGNMENTS, JULY 1, 1919.

*Chief of Bureau.*—Charles F. Marvin.  
*Assistant Chief.*—Charles C. Clark.  
*Chief Clerk.*—Edgar B. Calvert.  
*Secretary to Chief of Bureau.*—Miss Sophia A. Beuter.  
*Messenger to Chief of Bureau.*—Eugene F. Sweeney.

ASSIGNED TO CHIEF CLERK.

*General clerical force for Assistant Chief and Chief Clerk.*—Charles W. Rohrer, William Weber, Benjamin F. Butler, Lewis C. Ross, Miss Louie E. Audigier, Miss Mary E. Bell, Elmer C. Dietrich, Miss Phoebe Houle, Clifton R. Linfoot, Raymond R. Stone, and Vernon N. Wolf. Miss Ada M. Holland,\* Miss Doris V. Monroe,\* and W. Lawrence Smith\* (messengers).  
*File room.*—Thomas O. Pugh (in charge) and I. Gwynn Gardiner.  
*Drafting room.*—Clarence A. O'Brien (in charge), Arthur C. Thickstun, and William R. Thickstun.  
*Machine shop.*—Edward L. G. Rauh (in charge), Arthur J. Weed, Francis A. Claveloux, Julius J. Martin, and Oscar C. Rauh.  
*Photograph room.*—Vacant.  
*Heat, light, and power plant:*  
*Engineer.*—Bernard T. McCartney.  
*Assistant engineer.*—William J. Barrett.  
*Fireman and steam fitter.*—James H. Kibler.\*  
*Firemen.*—John L. Gallagher,\* (George W. Johnson, and Benjamin Robinson.  
*Electrician.*—Daniel F. O'Neil.  
*Carpenter shop.*—John A. Balster (in charge), Everett H. Hughes, and John M. Haynes.  
*Paint shop.*—John H. Lucas (in charge) and William M. Guttridge.  
*Gardener.*—Alois Holderith.  
*Watch force and general messenger service:*  
*Captain of the Watch.*—Vacant.  
*Watchmen.*—John Sullivan, John W. Clem, Edward A. Branham, James M. Hudson, and Robert H. Morton.  
*Messengers.*—Henry Cummins,\* Frank H. Fox,\* Walter E. Ward, Leo J. Fletcher,\* Bernard P. Flynn, Henderson Henry,\* Harvey Shomo,\* Paul C. Smith,\* Alfred F. Taylor,\* and Francis X. Welch.\*  
*Laborers.*—George J. Glover (in charge), Joseph Brown, Moses H. Brown, William McLane, jr., William Plummer, jr., Rudolph Washington, William Patrick, John Sweetney, James T. Toliver, John W. Dudley,\* William H. Edwards, George W. Phillips,\* John D. Washington, Mrs. Lydia M. Crabbs, Mrs. Ada Flemming, Mrs. Katie Harmon, and Mrs. Sarah E. Holmes.

## AEROLOGICAL INVESTIGATIONS.

*In charge.*—Willis R. Gregg.

*Clerical force.*—Ollie L. Lewis, William S. Cloud, George Hanlin, Russell C. Lane, Leroy T. Samuels, Miss Elizabeth H. Forbes, Miss Sallie R. Stout, Roy A. Wells, Miss Lula A. Ehringer, Mrs. Florence D. Hall, and Miss Dorothy C. Massicotte.

## AGRICULTURAL METEOROLOGY.

*In charge.*—J. Warren Smith.

*Clerical force.*—Joseph B. Kincer, Charles A. Donnel,<sup>o</sup> Miss Geneva B. Diehl, Mrs. Katharine Davis, and Miss Edith V. McMullen.\*

## CLIMATOLOGICAL DIVISION.

*In charge.*—Preston C. Day.

*Clerical force.*—Maitland C. Bennett, William E. Donaldson, Miss Alice T. HerCUS, Herbert C. Hunter, Edward M. Mattison, Samuel A. Potter, Miss Laura M. Dey, Miss Laura F. Hawkins,† Mrs. Moselle C. Herndon, Richard O. Lazenby (part time), William D. Lee, William Mahaffy, John H. Edge, Mrs. Alice H. Haynes, Mrs. Emma M. Helmick, and Miss Mary O. Souder.\*

*Marine section.*—Franklin G. Tingley (in charge), Willis E. Hurd, George PaterSON, and Frederic A. Young.

## EDITOR.

*Editor.*—Charles F. Brooks.

*Clerical force.*—Herbert Lyman.

## FORECAST DIVISION.

*In charge.*—Henry E. Williams.

*Clerical force.*—George W. Smith, Henry Goucher, Frederick W. Krichelt, C. Grant Bigham, Albert F. Magrum, Roy W. Wade, James L. Whiteside, Homer W. Clough, Thomas R. Brooks, and Richard O. Lazenby (part time).

*Observatory.*—Samuel L. Mosby (in charge) and William F. Clark.

## FORECASTING.

*Forecasters.*—Edward H. Bowie and Harry C. Frankenfield (alternate monthly).

*Clerical force.*—R. Hanson Weightman.

## INSTRUMENT DIVISION.

*In charge.*—Benjamin C. Kadel.

*Clerical force.*—John H. Jones, Sterling P. Fergusson, Roy N. Covert, Hermann E. Hobbs, Ernest L. Felton, William Berry, and John J. Brennan, jr. Richard W. Curtis (laborer).

## LIBRARY.

*In charge.*—Charles F. Talman.

*Clerical force.*—Mrs. Ruby S. Hotze, Miss Margaret M. Welch, and Mrs. Bae B. Quereau.

## PRINTING DIVISION.

*In charge.*—Robert Seyboth.

*Clerical force.*—Charles T. Burns.

*Composing force.*—Benjamin F. Larcombe (in charge), Henry C. Briscoe, William B. Green, Charles W. Ingalls, Norman Sandridge, Oscar V. Shomo, and Albert J. Thrower.\*

*Press room force.*—Thomas H. King (in charge), Thaddeus S. Stone, Howard W. Dickson, James P. McGinness, Mrs. Annie E. Small, and John B. Stanton.\*

*Lithographers.*—John W. Fraber, Samuel C. Long, Walter S. Thornton, and Thomas J. Jennings.\*

*Mechanical force.*—George Allen and Stewart S. Sharp.

*Laborers.*—Thomas Patrick and William Plummer, sr.

#### RIVER AND FLOOD DIVISION.

*In charge.*—Alfred J. Henry.

*Clerical force.*—Herman W. Smith, Andrew M. Hamrick (special duty), Roger F. Lansdale, and Miss Adelaide L. Patrick.†

#### SEISMOLOGICAL INVESTIGATIONS.

*In charge.*—William J. Humphreys.

*Clerical force.*—Ruy H. Finch.

#### SOLAR RADIATION INVESTIGATIONS.

*In charge.*—Herbert H. Kimball.

*Clerical force.*—Irving F. Hand.

#### STATIONS AND ACCOUNTS DIVISION.

*In charge.*—Delos T. Maring.

*Clerical force.*—John C. Ashton, Aaron H. Kinnear, Robert L. Miller, George M. Richards, Harold H. Cooper, John S. DeForest, Rufus J. Keeter, James H. Melton, Robert D. Meston, Miss Lydia L. Frampton, Jean H. Gallenne, Miss Irene V. Meserole, and Charles T. Allen.\* Robert M. Bolton (messenger).

#### SUPPLIES DIVISION.

*In charge.*—Benjamin A. Blundon.

*Clerical force.*—John C. Stewart, Clinton J. Ashton, Samuel W. Beall, Don Y. Engell, William N. Parker, Arthur Thompson, George W. E. Welch, and Charles W. Walker.

*Packing room.*—Fred L. Francis.

*Laborers.*—Linwood Turner and Robert Harris.

#### TELEGRAPH DIVISION.

*In charge.*—S. Percy Minnick.

*Clerical and operating force.*—Delzene Marean, Fred M. Graf, James J. Hope, James M. Dean, Phelan W. Eatman, Anson F. Hunt, Stephen H. Martin, William L. Mead, Adelard A. Nourie, Alfred S. Mason, and Jasno L. Frnka.

#### VERIFICATIONS.

*In charge.*—Hermann Volker.

*Clerical force.*—Joseph B. Wilson.

STATION ASSIGNMENTS, JULY 1, 1919

ABILENE, TEX.

*In charge.*—William H. Green, Observer.

ALBANY, N. Y.

*In charge.*—George T. Todd, Meteorologist.

*Assistants.*—Herbert E. Vail.

James J. Cassidy.

*Messenger.*—Miss Camille M. Spadaro.\*

ALPENA, MICH.

*In charge.*—Frank Jermin, Meteorologist.

*Assistant.*—Miss Emma E. Jermin.\*

AMARILLO, TEX.

*In charge.*—Thomas J. Considine, Observer.

*Assistant.*—Leo Dwight.\*

*Messenger boy.*—Herman L. Rietman.

ANNISTON, ALA.

*In charge.*—Robert H. Dean, Observer.

ASHEVILLE, N. C.

*In charge.*—Thomas R. Taylor, Observer.

*Messenger boy.*—William E. Dixon.

ATLANTA, GA.

(Center of Georgia section, Climatological service.)

*In charge.*—Charles F. von Herrmann, Meteorologist.

*Assistants.*—Wesley W. Reed.

John J. O'Donnell.

*Printer.*—Augustus B. Nichols.

*Messenger boy.*—Paul H. Tyner.

ATLANTIC CITY, N. J.

*In charge.*—Walcott L. Day, Meteorologist.

*Messenger boy.*—Philip H. Gross.

AUGUSTA, GA.

*In charge.*—Eugene D. Emigh, Meteorologist.

*Assistant.*—William D. Kahrs.\*

*Messenger boy.*—Theodore B. Edelblut.\*

BAKER, OREG.

*In charge.*—William D. Maxwell, Observer.

BALTIMORE, MD.

(Center of Maryland and Delaware section, Climatological service.)

*In charge.*—Alfred H. Thiessen, Meteorologist.

*Assistants.*—Joseph Bily, jr.

Clemmy C. Hamme.

Charles F. Ray.\*

*Messenger boy.*—Walter M. Bottiger.

BENTONVILLE, ARK.

*In charge.*—Orin Parker, Observer.

## BINGHAMTON, N. Y.

*In charge.*—John R. Weeks, Meteorologist.

*Assistant.*—Clarence F. Hand.

*Messenger.*—Miss Marion B. Van Vradenburg.

## BIRMINGHAM, ALA.

*In charge.*—Edgar C. Horton, Observer.

*Assistant.*—Joseph Leshansky.

*Messenger.*—Miss Mattie V. Stutts.

## BISMARCK, N. DAK.

(Center of North Dakota section, Climatological service.)

*In charge.*—Orris W. Roberts, Meteorologist.

*Assistants.*—Edwin G. Larson.

Lee O. Yoder.

*Laborer.*—George P. Strohl.

## BLOCK ISLAND, R. I.

*In charge.*—George W. Edey, Assistant Observer.

*Messenger boy.*—Merton P. Mott.

## BOISE, IDAHO.

(Center of Idaho section, Climatological service.)

*In charge.*—Clinton E. Norquest, Meteorologist.

*Assistants.*—James E. Hutchison.

Delbert M. Little.

*Apprentice.*—LaVerne Weston.

## BOSTON, MASS.

(Center of New England section, Climatological service.)

*In charge.*—John W. Smith, Meteorologist.

*Assistants.*—Theodore L. Bridges.

Arthur W. Crosby.

Mark T. Nesmith.

Milton W. Dow.

Charles A. Woodworth.

Louis W. Carroll.

*Printer.*—John F. Nichols.

*Messenger boy.*—James P. Harrington.

## BROKEN ARROW, OKLA.

(Aerological station.)

*In charge.*—John A. Reihle, Observer.

*Assistants.*—James W. Arnold.

Leslie A. Warren.

N. LeRoy Smith.\*

*Laborers.*—Chessor O. Bowles.

W. Houston Esslinger.

## BUFFALO, N. Y.

*In charge.*—David Cuthbertson, Meteorologist.

*Assistants.*—John F. Hurley.

George V. Sager.

James J. Fitzgerald.

*Messenger boy.*—Donald M. Draper.

## BURLINGTON, VT.

*In charge.*—F. Eugene Hartwell, Meteorologist.

*Apprentice.*—J. Frederick Powers.

## CAIRO, ILL.

*In charge.*—William E. Barron, Meteorologist.

*Assistant.*—Joseph F. McGruder.

*Messenger boy.*—Thomas Carmody.

## CANTON, N. Y.

*In charge.*—John S. Hazen, Observer.

*Messenger.*—Miss Grace Hazen.\*

## CAPE HENRY, VA.

(Office of Chief Operator Cape Henry-Hatteras telegraph line.)

*In charge.*—John F. Newsom, Meteorologist.

*Assistant.*—Earl W. Graeff.

*Vessel reporter.*—Clement R. White.

*Repairmen.*—Bryan Byrd.\*

Harris M. Perry.

*Laborer.*—Fabius H. Dailey.\*

## CAPE MAY, N. J.

*In charge.*—Louis Dorman, Observer (half time).

## CHARLES CITY, IOWA.

*In charge.*—Hal P. Hardin, Observer.

## CHARLESTON, S. C.

*In charge.*—James H. Scott, Meteorologist.

*Assistant.*—John S. Garrason.

*Messenger boy.*—Ralph A. Riols.

## CHARLOTTE, N. C.

*In charge.*—Carl L. Bush, Observer.

*Assistant.*—Henry C. Alexander.\*

## CHATTANOOGA, TENN.

*In charge.*—Lewis M. Pindell, Meteorologist.

*Assistant.*—Henry C. Gross.

*Messenger boy.*—Freeman A. R. Hollis.

## CHEYENNE, WYO.

(Center of Wyoming section, Climatological service.)

*In charge.*—George W. Pitman, Observer.

*Assistants.*—Lacey Laughlin.

Miss Stella C. Richart.\*

*Messenger.*—Miss Clarice M. LeFors.

## CHICAGO, ILL.

(Center of Forecast district, embracing Illinois, Iowa, Wisconsin, Minnesota, Missouri, Kansas, Nebraska, South Dakota, North Dakota, Montana, and Wyoming.)

*In charge.*—Henry J. Cox, Meteorologist.

*Assistant forecaster.*—Charles L. Mitchell.

*Assistants.*—Ernest H. Haines.

Owen T. Lay.

Wilfred P. Day.

Arthur J. Haidle.

Miss Anna A. Conwell.

Harold A. Klumpp.\*

Orville D. Marshall.\*

George C. Nelson.\*

Oliver H. Taeschner.\*

*Printer.*—Blake Spenny.

*Messenger boys.*—John D. O'Connor.  
Harry J. Wilson.

#### CINCINNATI, OHIO.

*In charge.*—William C. Devereaux, Meteorologist.

*Special duty (half time).*—Simon S. Bassler, Local Forecaster.

*Assistants.*—William B. Schlomer.

Julian T. Gray.

John T. Fitzsimmons.

William McK. Meyer.

*Apprentice.*—Frank A. Bruns.

*Messenger boy.*—William Tyrrell.

#### CLALLAM BAY, WASH.

*In charge.*—Marius Rasmussen, Repairman.

#### CLEVELAND, OHIO.

*In charge.*—Eben H. Emery, Meteorologist.

*Assistants.*—William Davis.

George Hass-Hagen.

*Printer.*—Robert F. Simms.

*Apprentice.*—William K. Wettrich.

*Messenger.*—Miss Elsie F. Emery.

#### COLUMBIA, MO.

(Center of Missouri section, Climatological service.)

*In charge.*—George Reeder, Meteorologist.

*Assistants.*—Orlin R. Rogers.

Maranda R. Weldon.\*

*Messenger boy.*—Raymond P. Tipton.\*

#### COLUMBIA, S. C.

(Center of South Carolina section, Climatological service.)

*In charge.*—Richard H. Sullivan, Meteorologist.

*Assistants.*—Joseph F. Jungermann.

George J. Brands.

*Messenger boy.*—Pierre Mellichamp.\*

#### COLUMBUS, OHIO.

(Center of Ohio section, Climatological service.)

*In charge.*—William H. Alexander, Meteorologist.

*Assistants.*—Joseph M. Kirk.

Howard H. Martin.

John W. Schaeffer.

*Printer.*—James P. Ryan.

*Messenger boy.*—Carl G. J. Gutknecht.

#### CONCORD, N. H.

*In charge.*—Elisha C. Vose, Meteorologist.

*Messenger boy.*—Redfield A. F. Anderson.

#### CONCORDIA, KANS.

*In charge.*—John W. Byram, Observer.

#### CORPUS CHRISTI, TEX.

*In charge.*—Charles E. Heckathorn, Observer.

*Apprentice.*—Edward A. Kessy.

## DALLAS, TEX.

*In charge.*—Joseph L. Cline, Meteorologist.

*Assistants.*—Charles I. Dague.

Richard J. Fitzgerald.\*

*Apprentice.*—Murl E. Bethurum.

## DAVENPORT, IOWA.

*In charge.*—Julius M. Sherier, Meteorologist.

*Assistants.*—Ellwood E. Unger.

Norman L. Knight.

## DAYTON, OHIO.

*In charge.*—R. Frank Young, Meteorologist.

*Assistant.*—John Daily.

*Messenger boy.*—Daniel J. McCarthy.\*

## DEL RIO, TEX.

*In charge.*—Cecil A. Parrack, Observer.

## DENVER, COLO.

(Center of Forecast district, embracing Colorado, New Mexico, Arizona, and Utah; center of Colorado section, Climatological service.)

*In charge.*—Frederick H. Brandenburg, District Forecaster.

*Assistant forecaster.*—Frederick W. Brist.

*Assistants.*—Edwin B. Gittings, jr.

Budd Evans.

Arthur H. C. Callen.

Ernest J. Hendricks.\*

*Printer.*—Arthur V. Groce.

*Messenger boys.*—Edward Szollas, jr.

Frank J. Rhodes.

## DES MOINES, IOWA.

(Center of Iowa section, Climatological service.)

*In charge.*—Charles D. Reed, Meteorologist.

*Assistants.*—Fred L. Disterdick.

Edward W. McGann.

Miss Ethel D. Slaght.\*

*Apprentice.*—Horace C. Burgum.

## DETROIT, MICH.

*In charge.*—Norman B. Conger, Meteorologist.

*Assistants.*—Charles D. C. Thompson.

Abe Wiesner.

Ross O. Miller.

*Messenger boy.*—Russell N. J. Koebel.

## DEVILS LAKE, N. DAK.

*In charge.*—Martin R. Hovde, Observer.

## DODGE CITY, KANS.

*In charge.*—Harrison McP. Baldwin, Observer.

## DREXEL, NEBR. (Near Omaha, Nebr.)

(Aerological station.)

*In charge.*—Vincent E. Jakl, Meteorologist.

*Assistants.*—Charles S. Ling.

Herbert L. Choate.

Earl A. Fitch.\*

*Skilled mechanic.*—Dahl Baxter.

*Laborers.*—Rudolph B. Christman.

Glen Jefferson.

#### DUBUQUE, IOWA.

*In charge.*—James H. Spencer Meteorologist.

*Assistant.*—Louis H. Kammüller.\*

*Messenger.*—William W. Christman.

#### DULUTH, MINN.

*In charge.*—Herbert W. Richardson, Meteorologist.

*Assistants.*—Ira C. Plummer.

John P. Meyer.\*

*Messenger boy.*—Hector C. Herbert.\*

#### EASTPORT, ME.

*In charge.*—William H. Brunkow, Assistant Observer.

*Messenger boy.*—Matthew I. Peacock.

#### ELKINS, W. VA.

*In charge.*—Olin M. Hadley, Observer.

*Messenger.*—Jesse C. Robinson.

#### ELLENDALE, N. DAK.

(Aerological station.)

*In charge.*—Frank J. Bavendick, Observer.

*Assistants.*—Frank I. Whitney.

William E. Maughan.

James R. Baker.\*

*Laborers.*—William A. Birch.

Charles E. Hubbard.

#### EL PASO, TEX.

*In charge.*—Robert M. Shaver, Observer.

*Messenger boy.*—Lee Roy Johnston.

#### ERIE, PA.

*In charge.*—Harry O. Geren, Meteorologist.

*Assistant.*—Ralph W. Thomas.

*Messenger.*—Henry Connaroe.

#### ESCANABA, MICH.

*In charge.*—Harvey H. Spindler, Meteorologist.

*Messenger boy.*—Joseph Bussineau.

#### EUREKA, CALIF.

*In charge.*—James Jones, Observer.

*Apprentice.*—Miss Laura B. Cooper.\*

#### EVANSVILLE, IND.

*In charge.*—Albert Brand, Meteorologist.

*Assistant.*—Edward J. Olsen.

*Messenger boy.*—Sylvester E. Decker.

#### FORT SMITH, ARK.

*In charge.*—Leon J. Guthrie, Meteorologist.

*Apprentice.*—Leon J. Guthrie, jr.

*Messenger boy.*—Eldred E. Telford.

## FORT WAYNE, IND.

*In charge.*—Patrick McDonough, Meteorologist.

*Assistant.*—William S. Baker.\*

*Messenger boy.*—George J. Phillipp, jr.

## FORT WORTH, TEX.

*In charge.*—Dennis S. Landis, Meteorologist.

*Apprentices.*—Charles C. Allen.

Rexford A. Cooper.

## FRESNO, CAL.

*In charge.*—Walter E. Bonnett, Meteorologist.

*Apprentice.*—Talmage G. Havner.

*Messenger boy.*—Wayne W. Bonnett.

## GALVESTON, TEX.

*In charge.*—Arthur H. Scott, Observer.

*Apprentices.*—John P. Mullen, jr.

Michael E. Hanlon.

## GRAND HAVEN, MICH.

*In charge.*—Herbert Tullsen, Observer.

*Apprentice.*—Edwin Bratton.

## GRAND JUNCTION, COLO.

*In charge.*—Esek S. Nichols, Meteorologist.

*Assistant.*—George P. Murphy.

## GRAND RAPIDS, MICH.

(Center of Michigan section, Climatological service.)

*In charge.*—Charles F. Schneider, Meteorologist.

*Assistants.*—Raymond E. Clark.

Edward A. Brown.

Charles M. Bacon.

*Messenger.*—Miss Nellie M. DeBruyn.

## GREEN BAY, WIS.

*In charge.*—Frederick W. Conrad, Observer.

*Messenger boy.*—James J. Trich.

## GREENVILLE, S. C.

*In charge.*—Gerald C. Merchant, Observer.

*Messenger.*—Cecil E. Mahaffey.\*

## GROESBECK, TEX.

(Aerological station.)

*In charge.*—Thomas J. Chancellor, Meteorologist.

*Assistants.*—Charles O. Schick.

James P. Molen.

Edward F. Simes.

Harold B. Douglas.\*

*Laborers.*—John P. Jones.

John B. Waller.

## HANNIBAL, MO.

*In charge.*—Bion L. Waldron, Meteorologist.

*Assistant.*—Timothy D. Firestone.

## HARRISBURG, PA.

*In charge.*—Edward R. Demain, Meteorologist.

*Assistant.*—Elton Peterman.

*Messenger boy.*—Roy F. Miller.

## HARTFORD, CONN.

*In charge.*—William W. Neifert, Meteorologist.

*Assistant.*—Harold M. Sampson.

*Apprentice.*—Kenneth A. Taylor.

## HATTERAS, N. C.

*In charge.*—Richard B. Dailey,\* Assistant Observer.

*Laborer.*—Richard J. Stowe.

## HAVRE, MONT.

*In charge.*—Charles W. Ling, Observer.

## HELENA, MONT.

(Center of Montana section, Climatological service.)

*In charge.*—William T. Lathrop, Meteorologist.

*Assistants.*—Myron F. Marsh.

Jay G. Diamond.

*Messenger boy.*—Vacant.

## HONOLULU, HAWAII.

(Center of Hawaiian section, Climatological service.)

*In charge.*—Lawrence H. Daingerfield, Meteorologist.

*Assistant.*—Harris A. Jones.

## HOUGHTON, MICH.

*In charge.*—Howard B. Cowdrick, Observer.

*Apprentice.*—Arthur J. DeMars.

## HOUSTON, TEX.

(Center of Texas section, Climatological service.)

*In charge.*—Bernard Bunnemeyer, Meteorologist.

*Assistants.*—Malcolm Sprague.

Curtis Adams.

Ernest Carson.

Dallas B. Hayes.

*Printer.*—John C. Adams.

*Messenger boy.*—Vernon O. H. Burnett.

## HURON, S. DAK.

(Center of South Dakota section, Climatological service.)

*In charge.*—Montello E. Blystone, Meteorologist.

*Assistant.*—Philip G. McGinnis.

*Apprentice.*—Alfred E. Griffiths.

## INDEPENDENCE, CAL.

*In charge.*—Wayland Bailey, Observer.

## INDIANAPOLIS, IND.

(Center of Indiana section, Climatological service.)

*In charge.*—John H. Armington, Meteorologist.

*Special duty (half time).*—William T. Blythe, Local Forecaster.

*Assistants.*—Elward W. Holcomb.

Fred H. Ackelow.

*Printer.*—Lawrence L. McWhorter.

*Apprentice.*—John J. J. L. Smith.

*Messenger boy.*—Theodore R. Rubush.

## IOLA, KANS.

*In charge.*—Marsden Wright, Observer.

## ITHACA, N. Y.

(Center of New York section, Climatological service.)

*In charge.*—Wilford M. Wilson, Professor of Meteorology.*Assistants.*—John C. Fisher.

Jay W. Raplee (half time).

George F. Genung.\*

*Messenger boy.*—George W. Little.\*

## JACKSONVILLE, FLA.

(Center of Florida section, Climatological service.)

*In charge.*—Alexander J. Mitchell, Meteorologist.*Assistants.*—John E. Sanders.

Roland L. Anderson.\*

*Printer.*—Charles D. Walker.*Messenger boy.*—Ralph A. A. Ostrom.

## JUNEAU, ALASKA.

(Center of Alaska section, Climatological service.)

*In charge.*—Melvin B. Summers, Meteorologist.*Assistant.*—Elden W. Day.

## KALISPELL, MONT.

*In charge.*—John Grover, Observer.

## KANSAS CITY, MO.

*In charge.*—Patrick Connor, Meteorologist.*Assistants.*—Robert L. Anderson.

Herbert C. Springman.

*Printer.*—Roy W. Hays.*Messenger boy.*—Francis F. Fennelly.

## KEOKUK, IOWA.

*In charge.*—Frederic Z. Gosewisch, Observer.*Assistant.*—Carl E. Hadley.

## KEY WEST, FLA.

*In charge.*—Harry B. Boyer, Meteorologist.*Assistants.*—Eugene M. Barto.

John C. McCarthy.

*Repairman.*—Stanley Saunders.

## KILAUEA, HAWAII.

(Volcano station.)

*In charge.*—Thomas A. Jaggard, jr., Volcanologist.

## KNOXVILLE, TENN.

*In charge.*—John F. Voorhees, Meteorologist.*Assistant.*—Roy S. Buffat.\**Messenger boy.*—William E. Cooper.

## LA CROSSE, WIS.

*In charge.*—Edwin C. Thompson, Observer.*Assistant.*—Albert D. Sanial.

## LANDER, WYO.

*In charge.*—McLin S. Collom, Observer.

## LANSING, MICH.

*In charge.*—Dewey A. Seeley, Meteorologist.

*Assistants.*—Bernard B. Whittier.

Clarence G. Andrus.

*Messenger boy.*—Charles R. Brown.\*

#### LEESBURG, GA.

(Aerological station.)

*In charge.*—Frank T. Cole, Observer.

*Assistants.*—Henry P. Adams.

Oscar S. Neylans.

Clifton L. Ray.

W. Percy Long.\*

*Laborers.*—Arthur R. Long.

Fred Shackelford.

#### LEWISTON, IDAHO.

*In charge.*—Walter W. Thomas, Observer.

*Messenger.*—Mrs. Cora E. Thomas.\*

#### LEXINGTON, KY.

*In charge.*—William A. Mitchell, Meteorologist.

*Messenger.*—Miss L. Albin Baxter.

#### LINCOLN, NEBR.

(Center of Nebraska section, Climatological service.)

*In charge.*—George A. Loveland, Meteorologist.

*Assistants.*—Harry G. Carter.

Don M. Lillie.

William D. Bancroft.\*\*

Stanley M. Hetland.

*Printer.*—Allen C. Brightenburg.

*Messenger boy.*—David Stehr.

#### LITTLE ROCK, ARK.

(Center of Arkansas section, Climatological service.)

*In charge.*—Harvey S. Cole, Meteorologist.

*Assistants.*—Truman G. Shipman.

Walter C. Hickmon.

Herbert F. Stevenson.\*

*Messenger.*—Miss Hildagard C. Schnuettgen.

#### LOS ANGELES, CALIF.

*In charge.*—Ford A. Carpenter, Meteorologist.

*Assistants.*—Arthur W. Pugh.

Raymond A. Nelson.

E. Herbert Thompson.

*Messenger boy.*—Raymond M. Teal.

#### LOUISVILLE, KY.

(Center of Kentucky section, Climatological service.)

*In charge.*—Ferdinand J. Walz, Professor of Meteorology.

*Assistants.*—James L. Kendall.

Thomas E. Gull.

Wallace M. Martin.\*

*Printer.*—John B. Harris.

*Messenger boy.*—Michael M. Hellmann.

#### LUDINGTON, MICH.

*In charge.*—Cyrus H. Eshleman, Observer.

*Messenger boy.*—Neal C. Ford.

## LYNCHBURG, VA.

*In charge.*—George N. Wilson, Meteorologist.

*Messenger.*—Robert C. Williams.

## MACON, GA.

*In charge.*—Richard M. Geddings, Observer.

*Assistant.*—Harry Raynes.

## MADISON, WIS.

*In charge.*—Eric R. Miller, Meteorologist.

*Assistants.*—Warren J. Summerville.

Harold P. Parker.

Arthur F. Piippo.

## MANTEO, N. C.

*In charge.*—Alpheus Drinkwater, Repairman.

## MARQUETTE, MICH.

*In charge.*—Henry R. Patrick, Observer.

*Apprentice.*—Arthur LaCombe.

## MEMPHIS, TENN.

*In charge.*—Samuel C. Emery, Meteorologist.

*Assistants.*—John D. Blagden.

Charles T. Lehning.\*

*Messenger boy.*—Samuel M. Goldsmith.

## MERIDIAN, MISS.

*In charge.*—James H. Jaqua, Observer.

*Assistant.*—Grady Norton.

*Apprentice.*—Samuel F. Grayson.

## MIAMI, FLA.

*In charge.*—Richard W. Gray, Meteorologist.

*Assistant.*—Leroy V. Martin, jr.\*

## MILWAUKEE, WIS.

(Center of Wisconsin section. Climatological service.)

*In charge.*—Henry B. Hersey, Meteorologist.

*Assistants.*—Alonzo A. Justice.

Miss Mildred S. Leenhouts.\*

*Printer.*—Ernest F. Groene.

*Messenger boy.*—Elmer F. Justmann.

## MINNEAPOLIS, MINN.

(Center of Minnesota section. Climatological service.)

*In charge.*—Ulysses G. Pursell, Meteorologist.

*Assistants.*—Louis Lodholz.

William M. Labovich.

*Printer.*—Alexander Reynick.

*Messenger boy.*—Carl G. Johnson.\*

## MOBILE, ALA.

*In charge.*—Albert Ashenberger, Meteorologist.

*Assistant.*—Vacant.

*Messenger boy.*—Michael J. Byrnes.

## MODENA, UTAH.

*In charge.*—Harry M. Hightman, Observer.

## MONTGOMERY, ALA.

(Center of Alabama section, Climatological service.)

*In charge.*—Patrick H. Smyth, Meteorologist.*Assistants.*—Jesse W. Smith.

Ernest L. Jones.

Miss Louise Hall.\*

## MOUNT TAMALPAIS, CALIF.

(Branch of San Francisco office; in charge of an assistant detailed therefrom by the official in charge.)

## NANTUCKET, MASS.

*In charge.*—(George E. Grimes, Observer.

## NASHVILLE, TENN.

(Center of Tennessee section, Climatological service.)

*In charge.*—Roscoe Nunn, Meteorologist.*Assistant.*—Robert M. Williamson.*Printer.*—John S. Stewart.*Messenger boys.*—Ernest C. Billingsley.

Charles Cammerer, jr.

## NEAH BAY, WASH.

*In charge.*—Harold B. Hobbs, Repairman.

## NEW HAVEN, CONN.

*In charge.*—Leonard M. Tarr, Meteorologist.*Assistants.*—Paul Hess.

Thomas E. Reed.

*Messenger.*—Noble Towner.

## NEW ORLEANS, LA.

(Center of Forecast district, embracing Texas, Oklahoma, Arkansas, and Louisiana; issues advisory warnings for Mexico; has charge of cooperation between Mexican Weather Service and United States Weather Bureau; center of Louisiana section, Climatological service.)

*In charge.*—Isaac M. Cline, District Forecaster.*Assistant forecaster.*—Ray A. Dyke.*Assistants.*—Willard McDonald.

Richard W. Tuck, jr.

Lawrence P. Elizardi.\*

John J. Phillippi.\*

James L. Smith.\*

Malcolm W. Stumpf.\*

*Printer.*—Eugene E. Brady, sr.*Messenger boy.*—August J. Blake.

## NEW YORK, N. Y.

*In charge.*—James H. Scarr, Meteorologist.*Assistants.*—James H. Kimball.

David R. Morris.

Samuel Deitch.

Gerald J. O'Connor.

Llewellyn Raplee.

Charles N. Bemis.

Herbert E. Cole.

William G. Riley.

William A. Chambers, jr.\*

*Printer.*—Benjamin Parry.*Apprentice.*—Charles L. Parks.*Messenger boy.*—Victor J. Drechsler.

## NORFOLK, VA.

*In charge.*—William G. Burns, Meteorologist.

*Assistants.*—Charles H. Richardson.

Albert J. Davis.

Edgar W. Woolard.

*Apprentice.*—Thomas B. Ghiselin.

## NORTHFIELD, VT.

*In charge.*—William A. Shaw, Meteorologist.

*Assistant.*—James M. Howe.

## NORTH HEAD, WASH.

*In charge.*—Walter F. Feldwisch, Observer.

*Repairman.*—Robin E. Spencer.\*

## NORTH PLATTE, NEBR.

*In charge.*—Alphonso W. Shilling, Observer.

*Messenger boy.*—Arthur M. McGrew.

## OKLAHOMA, OKLA.

(Center of Oklahoma section, Climatological service.)

*In charge.*—J. Pemberton Slaughter, Meteorologist.

*Assistants.*—Harry F. Wahlgren.

Sylvester V. Anderson.\*

*Printer.*—Claude L. Fassett.

*Messenger boys.*—George Malkin.\*

Earl R. Davis.\*

## OMAHA, NEBR.

*In charge.*—Lucius A. Welsh, Meteorologist.

*Assistants.*—Millard V. Robins.

Martin B. Stubbs.

*Messenger boy.*—Cecil R. Scothorn.

## OSWEGO, N. Y.

*In charge.*—Julius G. Linsley, Observer.

## PALESTINE, TEX.

*In charge.*—William H. Hossler, Observer.

*Messenger boy.*—Elbert A. Owen.

## PARKERSBURG, W. VA.

(Center of West Virginia section, Climatological service.)

*In charge.*—Henry C. Howe, Meteorologist.

*Assistants.*—Robert P. Powell.

Harry C. DeMent.

## PENSACOLA, FLA.

*In charge.*—Gustave S. Lindgren, Meteorologist.

*Assistant.*—Gerald S. Kennedy.

*Apprentice.*—Miss Lucy E. Clark.

## PEORIA, ILL.

*In charge.*—Merton L. Fuller, Meteorologist.

*Assistant.*—Otis Jenkins.

*Messenger boy.*—Harold H. Boller.

## PHILADELPHIA, PA.

(Center of Pennsylvania section, Climatological service.)

*In charge.*—George S. Bliss, Meteorologist.*Assistants.*—George W. Mindling.

Frank H. Ahearn.

Arthur S. Lane.

Howard E. Freas.\*

*Printer.*—Thomas G. Smith.*Messenger.*—Miss Irma E. Schuebel.*Messenger boy.*—Morris Dell.

## PHOENIX, ARIZ.

(Center of Arizona section, Climatological service.)

*In charge.*—Robert Q. Grant, Meteorologist.*Assistants.*—James H. Gordon.

Edgar H. Fletcher.

Merritt Smith.\*

## PIERRE, S. DAK.

*In charge.*—Herman T. Collman, Observer.

## PITTSBURGH, PA.

*In charge.*—Henry Pennywitt, Meteorologist.*Assistants.*—William S. Brotzman.

Charles A. Belt.

*Apprentice.*—Rexford H. Detrick.*Messenger boy.*—Albert W. Becker.

## POCATELLO, IDAHO.

*In charge.*—Arthur R. Teeple, Observer.

## POINT REYES LIGHT, CALIF.

(Branch of San Francisco office; in charge of an assistant detailed therefrom by the official in charge.)

## PORT ANGELES, WASH.

(Office of Chief Operator Port Angeles-Tatoosh Island telegraph line.)

*In charge.*—Leon G. Sutton, Meteorologist.*Assistants.*—John J. Kelliher.

Clifton E. Johnson.\*

*Repairman.*—Mrs. Clarissa W. Sutton.\*

## PORT ARTHUR, TEX.

*In charge.*—Percy J. Naughton, Observer.

## PORT HURON, MICH.

*In charge.*—Ralph C. West, Observer.*Messenger.*—George W. Talt.

## PORTLAND, ME.

*In charge.*—Edward P. Jones, Meteorologist.*Assistant.*—Henry H. Roche.*Messenger boy.*—Arthur J. McLeod.\*

## PORTLAND, OREG.

(Center of Oregon section, Climatological service.)

*In charge.*—Edward L. Wells, Meteorologist.

*Assistants.*—Frank Gillam.  
 Elgie M. Keyser.  
 Floyd D. Young.<sup>b</sup>  
 Perry R. Hill.  
 Thomas Gibson.  
 Arthur D. Taylor.

*Printer.*—Herbert W. McManus.  
*Messenger boy.*—Ernest F. Spiess.

## PROVIDENCE, R. I.

*In charge.*—Charles S. Wood, Meteorologist.  
*Assistant.*—Hobert E. Heyer.  
*Messenger boy.*—Austin M. Andersen.

## PUEBLO, COLO.

*In charge.*—William D. Fuller, Observer.  
*Assistant.*—Vacant.

## RALEIGH, N. C.

(Center of North Carolina section, Climatological service.)

*In charge.*—Lee A. Denson, Meteorologist.  
*Assistants.*—Herbert E. Kichline.  
 I. Martin Keiter.\*  
*Printer.*—Oscar L. Bailey.  
*Messenger boy.*—J. Melson Pittman.

## RAPID CITY, S. DAK.

*In charge.*—Harley N. Johnson, Observer.  
*Messenger.*—Leo E. Rosencranz.

## READING, PA.

*In charge.*—Cornelius J. Doherty, Meteorologist.  
*Assistant.*—Leon K. W. Walters.  
*Messenger.*—John R. Swartz.

## RED BLUFF, CALIF.

*In charge.*—Hermann J. Andree, Observer.

## RENO, NEV.

(Center of Nevada section, Climatological service.)

*In charge.*—Henry F. Alps, Meteorologist.  
*Assistants.*—Clarence E. Aikin (printer).  
 Oscar H. Hammonds.  
 Miss Effie B. Piper.\*

## RICHMOND, VA.

(Center of Virginia section, Climatological service.)

*In charge.*—Edward A. Evans, Meteorologist.  
*Assistants.*—Harry C. Metcalf.  
 Cecil L. Beacham.  
 Betson D. Price.\*  
*Messenger boy.*—Vacant.

## ROCHESTER, N. Y.

*In charge.*—Luther M. Dey, Meteorologist.  
*Assistant.*—Jesse L. Vanderpool.  
*Messenger boy.*—James C. Lockridge.\*

## ROSEBURG, OREG.

*In charge.*—William Bell, Observer.

## ROSWELL, N. MEX.

*In charge.*—Cleve Hallenbeck, Observer.

*Apprentice.*—Clifford G. Smith.

## ROYAL CENTER, IND.

(Aerological station.)

*In charge.*—Homer W. Ball, Meteorologist.

*Assistants.*—Fred I. Moses.

Arkas E. White.

Russel E. Frushour.

Berlin Pugh.\*

*Laborers.*—Maurice A. Kistler.

Robert V. Lawrence.

## SACRAMENTO, CALIF.

*In charge.*—Nathaniel R. Taylor, Meteorologist.

*Assistants.*—William W. Wyatt.

Albert J. Bastian.\*

*Apprentice.*—Arthur W. Meiss.

## SAGINAW, MICH.

*In charge.*—Frank H. Coleman, Meteorologist.

*Assistant.*—Robert M. Dole.

*Messenger boy.*—Clarence O. George.

## ST. JOSEPH, MO.

*In charge.*—William S. Belden, Meteorologist.

*Assistant.*—James A. Dittenmore.

*Apprentice.*—Harold L. Molyneux.

## ST. LOUIS, MO.

*In charge.*—Montrose W. Hayes, Meteorologist.

*Assistants.*—Walter J. Moxom.

Henry B. Lake.

William J. Schnurbusch.

Arthur A. Rausch.

*Printer.*—Edgar L. Nance.

*Messenger boys.*—Howard W. Alt.

Sam Rosenblum.

## ST. PAUL, MINN.

*In charge.*—John N. Ryker, Meteorologist.

*Assistant.*—Adolph Neumann.

*Messenger boy.*—John A. Pepera.

## SALT LAKE CITY, UTAH.

(Center of Utah section. Climatological service.)

*In charge.*—J. Cecil Alter, Meteorologist.

*Assistants.*—Thomas A. Blair.

John W. Brooks.

*Printer.*—Paul Buys.

*Messenger boy.*—Samuel D. Green.

## SAN ANTONIO, TEX.

*In charge.*—Allen Buell, Meteorologist.

*Assistant.*—George K. DeShazo.

*Messenger boy.*—Bartolomeo T. Bertetti, jr.

## SAN DIEGO, CALIF.

*In charge.*—Henry F. Alciatore, Meteorologist.

*Assistant.*—Dean Blake.

*Messenger boy.*—Norbert R. Serodino.

## SAND KEY, FLA.

(Under supervision of Key West, Fla., from which station assistants, alternating monthly, are assigned.)

## SANDUSKY, OHIO.

*In charge.*—Claude C. Cooper, Meteorologist.

*Assistant.*—Mrs. Hattie A. Cebull.\*

## SANDY HOOK, N. J.

*In charge.*—William H. Tracy, Observer.

*Messenger boy.*—William E. Lee.\*

## SAN FRANCISCO, CALIF.

(Center of Forecast district, embracing California, Nevada, Washington, Oregon, and Idaho; center of California section, Climatological service.)

*In charge.*—Edward A. Beals, District Forecaster.

*Assistant forecaster.*—George H. Willson.

*Assistants.*—William J. Reed.

T. Francis Drake.

Andrew H. Palmer.

Ernest E. Eklund.

Julius C. Hayden.

Julius C. Smith.

Keith Kelsey.

Hugo Legler.

Horace E. Smith (suspended until further orders).

*Printer.*—Owen E. Faubion.

*Repairman.*—Miss Ann L. Beck.\*

*Messenger boy.*—Stanley J. Galli.

## SAN JOSE, CALIF.

*In charge.*—Maurice Connell, Observer.

## SAN JUAN, PORTO RICO.

(Center of Porto Rico section, Climatological service.)

*In charge.*—Oliver L. Fassig, Meteorologist.

*Assistants.*—William C. Haines.

Bernard O. Weitz.

*Messenger.*—Joseph Lopez.

## SAN LUIS OBISPO, CALIF.

*In charge.*—John E. Hissong, Observer.

## SANTA FE, N. MEX.

(Center of New Mexico section, Climatological service.)

*In charge.*—Charles E. Linney, Meteorologist.

*Assistants.*—Joseph C. Piercy.

Erle L. Hardy.\*\*

*Messenger boy.*—Jose A. Rivera.

## SAULT SAINTE MARIE, MICH.

*In charge.*—Alexander G. Burns, Local Forecaster.

*Apprentice.*—Miss Verna Smith.

## SAVANNAH, GA.

*In charge.*—Charles M. Strong, Meteorologist.

*Assistants.*—John E. Lockwood.

Louis M. Campfield.

*Messenger.*—Matthew G. Jones.

## SCRANTON, PA.

*In charge.*—William M. Dudley, Meteorologist.

*Assistant.*—Eckley S. Ellison.

*Messenger boy.*—Gerald E. Tuttle.

## SEATTLE, WASH.

(Center of Washington section, Climatological service.)

*In charge.*—George N. Salisbury, Meteorologist.

*Assistants.*—Lawrence C. Fisher.

Robert M. Hardinge (in charge of marine work).

Herbert W. McKenzie.

Elvin J. Glass.

*Messenger boy.*—Wilbern H. Mueller.\*

## SEKIOU, WASH.

(Repair station; operated during months of January, February, March, November, and December.)

*In charge, when in operation.*—George Beesley, Repairman.

## SHERIDAN, WYO.

*In charge.*—Harry A. Frise, Observer.

*Apprentice.*—Allen T. Frise.

## SHREVEPORT, LA.

*In charge.*—James W. Cronk, Meteorologist.

*Assistant.*—Lorry A. Cook.\*

*Messenger boy.*—John C. Speaks.\*

## SIOUX CITY, IOWA.

*In charge.*—Gilbert W. McDowall, Meteorologist.

*Assistant.*—Gershom K. Greening, jr.

*Messenger boy.*—Guy L. Johnson.

## SPOKANE, WASH.

*In charge.*—Charles Stewart, Meteorologist.

*Assistant.*—Walter M. Weld.

*Messenger boy.*—Lansing Van W. Brown.

## SPRINGFIELD, ILL.

(Center of Illinois section, Climatological service.)

*In charge.*—Clarence J. Root, Meteorologist.

*Assistants.*—H. Merrill Wills.

Kennen D. Herman.

*Printer.*—Fred H. Weck.

*Messenger boy.*—Charles J. Flynn.

## SPRINGFIELD, MO.

*In charge.*—Walter B. Hare, Observer.

*Assistant.*—William W. Talbott.

*Messenger boy.*—Hugh E. Martin.

## SYRACUSE, N. Y.

*In charge.*—Morgan R. Sanford, Meteorologist.

*Assistant.*—Ernest S. Clowes.

*Apprentice.*—Harold F. Lee.

## TACOMA, WASH.

*In charge.*—Louis C. Cover, Meteorologist.

*Assistant.*—Donald McK. Cover.\*

## TAMPA, FLA.

*In charge.*—Walter J. Bennett, Meteorologist.

*Assistant.*—David Fisher.

*Messenger boy.*—Cyril J. McGraw.

## TATOOSH ISLAND, WASH.

*In charge.*—Ralph C. Mize, Observer.

*Assistant.*—Vacant.

## TAYLOR, TEX.

*In charge.*—Joseph P. McAuliffe, Observer.

*Messenger boy.*—Roy C. Clifton.

## TERRE HAUTE, IND.

*In charge.*—William P. Stewart, Meteorologist.

*Assistant.*—Otto E. Moery.

*Messenger boy.*—Max F. Spear.

## THOMASVILLE, GA.

*In charge.*—Maurice C. Faulk, Observer.

## TOLEDO, OHIO.

*In charge.*—William S. Currier, Meteorologist.

*Assistant.*—Frank E. McLeary.

*Messenger boy.*—Elmer L. Roe.

## TONOPAH, NEV.

*In charge.*—Charles D. Asher, Observer.

## TOPEKA, KANS.

(Center of Kansas section, Climatological service.)

*In charge.*—Snowden D. Flora, Meteorologist.

*Special duty (half time).*—Thorp B. Jennings, Meteorologist.

*Assistant.*—Frank A. Math.

*Messenger boy.*—Willis S. Shehi.

## TRENTON, N. J.

(Center of New Jersey section, Climatological service.)

*In charge.*—G. Harold Noyes, Meteorologist.

*Assistants.*—Stanley S. Schworm.

Howard J. Thompson.

*Messenger boy.*—Henry J. Glennon.

## TWIN, WASH.

*In charge.*—Perry Parker,\* Repairman.

## VALENTINE, NEBR.

*In charge.*—C. Dexter Grunow, Observer.

## VICKSBURG, MISS.

(Center of Mississippi section, Climatological service.)

*In charge.*—Robert T. Lindley, Meteorologist.*Assistants.*—Horace L. Pugh.

Edgar B. Henderson.\*

*Messenger.*—Theodore C. Mitchell.

## WAGON WHEEL GAP, COLO.

(Maintained in cooperation with Forest Service.)

*In charge.*—James H. Jarboe, Observer.*Assistant.*—Edwin H. Jones.

## WALLA WALLA, WASH.

*In charge.*—Charles C. Garrett, Meteorologist.*Apprentice.*—Ralph H. Desmond.

## WICHITA, KANS.

*In charge.*—Samuel P. Peterson, Meteorologist.*Assistant.*—Will L. Wyland.*Messenger boy.*—Frank B. Weidman.

## WILLISTON, N. DAK.

*In charge.*—John Craig, Observer.

## WILMINGTON, N. C.

*In charge.*—George W. Felger, Observer.*Assistant.*—William Johnstone.

## WINNEMUCCA, NEV.

*In charge.*—Ray L. Fisher, Observer.

## WYTHEVILLE, VA.

*In charge.*—James I. Widmeyer, Observer.

## YANKTON, S. DAK.

*In charge.*—William H. Fallon, Observer.

## YELLOWSTONE PARK, WYO.

*In charge.*—George E. Lawton, Observer.*Messenger.*—Richard Petersen.\*

## YUMA, ARIZ.

*In charge.*—Sumner Hackett, Observer.

## ON DUTY AT MILES CITY, MONT.

Charles M. Boucher, Station Agent.

## ON DUTY AT MOORHEAD, MINN.

Harriet R. Grasse, Station Agent.

## ON DUTY AT MOUNT WEATHER, VA.

James E. Fowler, Fireman.

Frank Martz, Unskilled Laborer.

## ON DUTY AT WAUSAU, WIS.

Harley E. Hyre, Observer.

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 Day, Walcott L. . . . . Atlantic City  
 Day, Wilfred P. . . . . Chicago  
 Dean, James M. . . . . Washington  
 Dean, Robert H. . . . . Anniston  
 DeBruyn, Miss Nellie M. . . . . Grand Rapids  
 Decker, Sylvester E. . . . . Evansville  
 DeForest, John S. . . . . Washington  
 Deitch, Samuel . . . . . New York  
 Dell, Morris . . . . . Philadelphia  
 Demain, Edward R. . . . . Harrisburg  
 DeMars, Arthur J. . . . . Houghton  
 De Ment, Harry C. . . . . Parkersburg  
 Denson, Lee A. . . . . Raleigh  
 DeShazo, George K. . . . . San Antonio  
 Desmond, Ralph H. . . . . Walla Walla  
 Detrick, Rexford H. . . . . Pittsburgh  
 Devereaux, William C. . . . . Cincinnati  
 Dey, Miss Laura M. . . . . Washington  
 Dey, Luther M. . . . . Rochester  
 Diamond, Jay G. . . . . Helena  
 Dickson, Howard W. . . . . Washington  
 Diehl, Miss Genevra B. . . . . Washington  
 Dietrich, Elmer C. . . . . Washington  
 Disterdick, Fred L. . . . . Des Moines  
 Dittmore, James A. . . . . St. Joseph  
 Dixon, William E. . . . . Asheville  
 Doherty, Cornelius J. . . . . Reading  
 Dole, Robert M. . . . . Saginaw  
 Donaldson, William E. . . . . Washington  
 Donnel, Charles A. . . . . Washington  
 Dorman, Louis . . . . . Cape May  
 Douglas, Harold B.\* . . . . Groesbeck  
 Dow, Milton W. . . . . Boston  
 Drake, T. Francis . . . . . San Francisco  
 Draper, Donald M. . . . . Buffalo  
 Drechsler, Victor J. . . . . New York  
 Drinkwater, Alpheus . . . . . Manteo  
 Dudley, John W.\* . . . . Washington  
 Dudley, William M. . . . . Scranton  
 Dwight, Leo\* . . . . . Amarillo  
 Dyke, Ray A. . . . . New Orleans
- Eatman, Phelan W. . . . . Washington  
 Eddy, George W. . . . . Block Island  
 Edelblut, Theodore B.\* . . . . Augusta

- Edge, John H. . . . . Washington  
 Edwards, William H. . . . . Washington  
 Ehringer, Miss Lula A. . . . . Washington  
 Eklund, Ernest E. . . . . San Francisco  
 Elizardi, Lawrence P.\* . . . . New Orleans  
 Ellison, Eckley S. . . . . Scranton  
 Emery, Eben H. . . . . Cleveland  
 Emery, Miss Elsie F. . . . . Cleveland  
 Emery, Samuel C. . . . . Memphis  
 Emigh, Eugene D. . . . . Augusta  
 Engell, Don Y. . . . . Washington  
 Eshleman, Cyrus H. . . . . Ludington  
 Esslinger, W. Houston. Broken Arrow  
 Evans, Budd . . . . . Denver  
 Evans, Edward A. . . . . Richmond  
  
 Fallon, William H. . . . . Yankton  
 Fassett, Claude L. . . . . Oklahoma  
 Fassig, Oliver L. . . . . San Juan  
 Faubion, Owen E. . . . . San Francisco  
 Faulk, Maurice C. . . . . Thomasville  
 Feldwisch, Walter F. . . . . North Head  
 Felger, George W. . . . . Wilmington  
 Felton, Ernest L. . . . . Washington  
 Fennelly, Francis F. . . . . Kansas City  
 Fergusson, Sterling P. . . . . Washington  
 Finch, Ruy H. . . . . Washington  
 Firestone, Timothy D. . . . . Hannibal  
 Fisher, David . . . . . Tampa  
 Fisher, John C. . . . . Ithaca  
 Fisher, Lawrence C. . . . . Seattle  
 Fisher, Ray L. . . . . Winnemucca  
 Fitch, Earl A.\* . . . . Drexel  
 Fitzgerald, James J. . . . . Buffalo  
 Fitzgerald, Richard J.\* . . . . Dallas  
 Fitzsimmons, John T. . . . . Cincinnati  
 Flemming, Mrs. Ada . . . . . Washington  
 Fletcher, Edgar H. . . . . Phoenix  
 Fletcher, Leo J.\* . . . . Washington  
 Flora, Snowden D. . . . . Topeka  
 Flynn, Bernard P. . . . . Washington  
 Flynn, Charles J. . . . . Springfield, Ill  
 Forbes, Miss Elizabeth H. Washington  
 Ford, Neal C. . . . . Ludington  
 Fowler, James E. . . . . Mount Weather  
 Fox, Frank H.\* . . . . Washington  
 Fox, Harold S.† . . . . Washington  
 Fraber, John W. . . . . Washington  
 Frampton, Miss Lydia L. Washington  
 Francis, Fred L. . . . . Washington  
 Frankensfield, Harry C. . . . . Washington  
 Frankford, Joseph E.† . . . . Des Moines  
 Franklin, William F.† . . . . Tampa  
 Freas, Howard E.\* . . . . Philadelphia  
 Frise, Allen T. . . . . Sheridan  
 Frise, Harry A. . . . . Sheridan  
 Frnka, Jasno L. . . . . Washington  
 Frushour, Russel E. . . . . Royal Center  
 Fuller, Merton L. . . . . Peoria  
 Fuller, William D. . . . . Pueblo  
  
 Gallagher, John L.\* . . . . Washington  
 Gallenne, Jean H. . . . . Washington  
 Galli, Stanley J. . . . . San Francisco  
 Gardiner, I. Gwynn. . . . . Washington  
 Garrason, John S. . . . . Charleston  
 Garrett, Charles C. . . . . Walla Walla  
  
 Geddings, Richard M. . . . . Macon  
 Genung, George F.\* . . . . Ithaca  
 George, Clarence O. . . . . Saginaw  
 Geren, Harry O. . . . . Erie  
 Gernrich, Henry R.† . . . . Hartford  
 Ghiselin, Thomas B. . . . . Norfolk  
 Gibson, Thomas . . . . . Portland, Oreg  
 Gildea, Earl G.† . . . . San Francisco  
 Gillam, Frank . . . . . Portland, Oreg  
 Gittings, Edwin B., jr . . . . . Denver  
 Glass, Elvin J. . . . . Seattle  
 Glennon, Henry J. . . . . Trenton  
 Glover, George J. . . . . Washington  
 Goldsmith, Samuel M. . . . . Memphis  
 Gordon, James H. . . . . Phoenix  
 Gormley, Joseph G.† . . . . Boston  
 Gosewisch, Frederic Z. . . . . Keokuk  
 Gottlich, Samuel† . . . . . Houston  
 Goucher, Henry . . . . . Washington  
 Graeff, Karl W. . . . . Cape Henry  
 Graf, Fred M. . . . . Washington  
 Grant, Robert Q. . . . . Phoenix  
 Grasse, Mrs. Harriet R. . . . . Moorhead  
 Gray, Julian T. . . . . Cincinnati  
 Gray, Richard W. . . . . Miami  
 Grayson, Samuel F. . . . . Meridian  
 Green, Samuel D. . . . . Salt Lake City  
 Green, William B. . . . . Washington  
 Green, William H. . . . . Abilene  
 Greening, Gershom K., jr. . . . . Sioux City  
 Gregg, Willis R. . . . . Washington  
 Griffiths, Alfred E. . . . . Huron  
 Grimes, George E. . . . . Nantucket  
 Groce, Arthur V. . . . . Denver  
 Groene, Ernest F. . . . . Milwaukee  
 Gross, Henry C. . . . . Chattanooga  
 Gross, Philip H. . . . . Atlantic City  
 Grover, John . . . . . Kalispell  
 Grunow, C. Dexter. . . . . Valentine  
 Guill, Thomas E. . . . . Louisville  
 Guthrie, Leon J. . . . . Fort Smith  
 Guthrie, Leon J., jr. . . . . Fort Smith  
 Gutknecht, Carl G. J. . . . . Columbus  
 Gutridge, William M. . . . . Washington  
  
 Hackett, Sumner . . . . . Yuma  
 Hadley, Carl E. . . . . Keokuk  
 Hadley, Olin M. . . . . Elkins  
 Haidle, Arthur J. . . . . Chicago  
 Haines, Ernest H. . . . . Chicago  
 Haines, William C. . . . . San Juan  
 Hall, Mrs. Florence D. . . . . Washington  
 Hall, Miss Louise\*. . . . . Montgomery  
 Hallenbeck, Cleve. . . . . Roswell  
 Hamme, Clemmy C. . . . . Baltimore  
 Hammonds, Oscar H. . . . . Reno  
 Hamrick, Andrew M. . . . . Washington  
 Hand, Clarence F. . . . . Binghamton  
 Hand, Irving F. . . . . Washington  
 Hanlin, George. . . . . Washington  
 Hanlon, Michael E. . . . . Galveston  
 Harder, Robert G. W.† . . . . St. Joseph  
 Hardin, Hal P. . . . . Charles City  
 Hardinge, Robert M. . . . . Seattle  
 Hardy, Erle L.\* . . . . Santa Fe  
 Hare, Walter B. . . . . Springfield, Mo  
 Harmon, Mrs. Katie. . . . . Washington

- Harrington, James P. .... Boston  
 Harris, John B. .... Louisville  
 Harris, Robert ..... Washington  
 Hartwell, F. Eugene ..... Burlington  
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 Hawner, Talmage G. .... Fresno  
 Hawkins, Miss Laura F.†. Washington  
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 Haynes, John M. .... Washington  
 Hays, Roy W. .... Kansas City  
 Hazen, Miss Grace\* ..... Canton  
 Hazen, John S. .... Canton  
 Heckathorn, Charles E. Corpus Christi  
 Hellmann, Michael M. .... Louisville  
 Helmick, Mrs. Emma M. .... Washington  
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 Henderson, Edgar B.\* ..... Vicksburg  
 Henry, Alfred J. .... Washington  
 Henry, Henderson\* ..... Washington  
 Herbert, Hector C.\* ..... Duluth  
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 Herman, Kennen D. .... Springfield, Ill  
 Herndon, Mrs. Moselle C. Washington  
 Hersey, Henry B. .... Milwaukee  
 Hess, Paul ..... New Haven  
 Hetland, Stanley M. .... Lincoln  
 Heyer, Hobert E. .... Providence  
 Hickmon, Walter C. .... Little Rock  
 Hightman, Harry M. .... Modena  
 Hill, Perry R. .... Portland, Oreg  
 Hissong, John E. .... San Luis Obispo  
 Hobbs, Harold B. .... Neah Bay  
 Hobbs, Hermann E. .... Washington  
 Hoffman, Joseph †. .... Washington  
 Holcomb, Elward W. .... Indianapolis  
 Holderith, Alois ..... Washington  
 Holland, Miss Ada M.\* ..... Washington  
 Hollis, Freeman A. R. .... Chattanooga  
 Holmes, David C.† ..... Knoxville  
 Holmes, Mrs. Sarah E. .... Washington  
 Hope, James J. .... Washington  
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 Hossler, William H. .... Palestine  
 Hotze, Mrs. Ruby S. .... Washington  
 Houle, Miss Phoebe ..... Washington  
 Hovde, Hjalmar B.† ..... Minneapolis  
 Hovde, Martin R. .... Devils Lake  
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 Hubbard, Charles E. .... Ellendale  
 Hudson, James M. .... Washington  
 Hughes, Everett H. .... Washington  
 Humphreys, William J. .... Washington  
 Hunt, Anson F. .... Washington  
 Hunter, Herbert C. .... Washington  
 Hurd, Willis E. .... Washington  
 Hurley, John F. .... Buffalo  
 Hutchison, James E. .... Boise  
 Hyre, Harley E. .... Wausau  
 Ingalls, Charles W. .... Washington  
 Jaggar, Thomas A., jr. .... Kilauea  
 Jaki, Vincent E. .... Drexel  
 Jaqua, James H. .... Meridian  
 Jarboe, James H. .... Wagon Wheel Gap  
 Jefferson, Glen. .... Drexel  
 Jenkins, Otis ..... Peoria  
 Jennings, Thomas J.\* ..... Washington  
 Jennings, Thorp B. .... Topeka  
 Jermin, Miss Emma E.\* ..... Alpena  
 Jermin, Frank ..... Alpena  
 Johnson, Carl G.\* ..... Minneapolis  
 Johnson, Clifton E.\* ..... Port Angeles  
 Johnson, George W. .... Washington  
 Johnson, Guy L. .... Sioux City  
 Johnson, Harley N. .... Rapid City  
 Johnson, Paul E.† ..... Marquette  
 Johnston, Lee Roy ..... El Paso  
 Johnstone, William ..... Wilmington  
 Jones, Edward P. .... Portland, Me  
 Jones, Edwin H. .... Wagon Wheel Gap  
 Jones, Ernest L. .... Montgomery  
 Jones, Harris A. .... Honolulu  
 Jones, James ..... Eureka  
 Jones, John H. .... Washington  
 Jones, John P. .... Groesbeck  
 Jones, Matthew G. .... Savannah  
 Jungermann, Joseph F. Columbia, S. C  
 Justice, Alonzo A. .... Milwaukee  
 Justmann, Elmer F. .... Milwaukee  
 Kadel, Benjamin C. .... Washington  
 Kahrs, William D.\* ..... Augusta  
 Kammueeller, Louis H.\* ..... Dubuque  
 Keeter, Rufus J. .... Washington  
 Keiter, I. Martin\* ..... Raleigh  
 Keller, Andrew P.† ..... Sandusky  
 Kelliher, John J. .... Port Angeles  
 Kelsey, Keith ..... San Francisco  
 Kendall, James L. .... Louisville  
 Kennedy, Gerald S. .... Pensacola  
 Kessy, Edward A. .... Corpus Christi  
 Keyser, Elgie M. .... Portland, Oreg  
 Kibler, James H.\* ..... Washington  
 Kiehline, Herbert E. .... Raleigh  
 Kimball, Herbert H. .... Washington  
 Kimball, James H. .... New York  
 Kincer, Joseph B. .... Washington  
 King, Thomas H. .... Washington  
 Kinnear, Aaron H. .... Washington  
 Kirk, Joseph M. .... Columbus  
 Kistler, Maurice A. .... Royal Center  
 Kistler, Merle D.† ..... Washington  
 Klinge, Robert N.† ..... Montgomery  
 Klumpp, Harold A.\* ..... Chicago  
 Knight, Norman L. .... Davenport  
 Knott, William J.† ..... Washington  
 Koebel, Russell N. J. .... Detroit  
 Krichelt, Frederick W. .... Washington  
 Labovich, William M. .... Minneapolis  
 LaCombe, Arthur ..... Marquette  
 Lake, Henry B. .... St. Louis  
 Landis, Dennis S. .... Fort Worth  
 Lane, Arthur S. .... Philadelphia  
 Lane, Russell C. .... Washington  
 Lansdale, Roger F. .... Washington  
 Larcombe, Benjamin F. .... Washington  
 Larson, Edwin G. .... Bismarck

- Laskowski, Bernard R.†.....Denver  
 Lathrop, William T.....Helena  
 Laughlin, Lacey.....Cheyenne  
 Lawrence, Robert V.....Royal Center  
 Lawton, George E...Yellowstone Park  
 Lay, Owen T.....Chicago  
 Lazenby, Richard O.....Washington  
 Lee, Harold F.....Syracuse  
 Lee, William D.....Washington  
 Lee, William E.\*.....Sandy Hook  
 Leenhouts, Miss Mildred S.\*Milwaukee  
 LeFors, Miss Clarice M.....Cheyenne  
 Legler, Hugo.....San Francisco  
 Lehning, Charles T.\*.....Memphis  
 Leshansky, Joseph.....Birmingham  
 Lewis, Ollie L.....Washington  
 Lillie, Don M.....Lincoln  
 Lindgren, Gustave S.....Pensacola  
 Lindley, Robert T.....Vicksburg  
 Linfoot, Clifton R.....Washington  
 Ling, Charles S.....Drexel  
 Ling, Charles W.....Havre  
 Linney, Charles E.....Santa Fe  
 Linsley, Julius G.....Oswego  
 Little, Delbert M.....Boise  
 Little, Errol W.†.....Boise  
 Little, George W.\*.....Ithaca  
 Lockridge, James C.\*.....Rochester  
 Lockwood, John E.....Savannah  
 Lodholz, Louis.....Minneapolis  
 Long, Arthur R.....Leesburg  
 Long, Hoyt†.....Washington  
 Long, Samuel C.....Washington  
 Long, W. Percy\*.....Leesburg  
 Lopez, Joseph.....San Juan  
 Loveland, George A.....Lincoln  
 Lucas, John H.....Washington  
 Lyman, Herbert.....Washington  
  
 McAuliffe, Joseph P.....Taylor  
 McCarthy, Daniel J.\*.....Dayton  
 McCarthy, John C.....Key West  
 McCarthy, Richard F.†.....Washington  
 McCartney, Bernard T.....Washington  
 McDonald, Willard.....New Orleans  
 McDonough, Patrick.....Fort Wayne  
 McDowall, Gilbert W.....Sioux City  
 McGann, Edward W.....Des Moines  
 McGinness, James P.....Washington  
 McGinnis, Philip G.....Huron  
 McGraw, Cyril J.....Tampa  
 McGrew, Arthur M.....North Platte  
 McGruder, Joseph F.....Cairo  
 McKenzie, Herbert W.....Seattle  
 McLane, William, jr.....Washington  
 McLeary, Frank E.....Toledo  
 McLeod, Arthur J.\*.....Portland, Me  
 McManus, Herbert W.....Portland, Oreg  
 McMullen, Miss Edith V.\*Washington  
 McNeal, Dont.....Louisville  
 McWhorter, Lawrence L.....Indianapolis  
 Magrum, Albert F.....Washington  
 Mahaffey, Cecil E.\*.....Greenville  
 Mahaffy, William.....Washington  
 Malkin, George\*.....Oklahoma  
 Marean, Delzene.....Washington  
 Maring Delos T.....Washington  
  
 Marsh, Myron F.....Helena  
 Marshall, Orville D.\*.....Chicago  
 Martin, Howard H.....Columbus  
 Martin, Hugh E.....Springfield, Mo  
 Martin, Julius J.....Washington  
 Martin, Leroy V., Jr.\*.....Miami  
 Martin, Stephen H.....Washington  
 Martin, Wallace M.\*.....Louisville  
 Martz, Frank.....Mount Weather  
 Marvin, Charles F.....Washington  
 Mason, Alfred S.....Washington  
 Massicotte, Miss Dorothy C.....Washington  
  
 Math, Frank A.....Topeka  
 Mattison, Edward M.....Washington  
 Maughan, William E.....Ellendale  
 Maxwell, William D.....Baker  
 Mead, William L.....Washington  
 Meiss, Arthur W.....Sacramento  
 Mellichamp, Pierre\*.....Columbia, S. C  
 Melton, James H.....Washington  
 Merchant, Gerald C.....Greenville  
 Meserole, Miss Irene V.....Washington  
 Meston, Robert D.....Washington  
 Metcalf, Harry C.....Richmond  
 Meyer, John P.\*.....Duluth  
 Meyer, William McK.....Cincinnati  
 Miller, Eric R.....Madison  
 Miller, Robert L.....Washington  
 Miller, Ross O.....Detroit  
 Miller, Roy F.....Harrisburg  
 Mindling, George W.....Philadelphia  
 Minniek, S. Percy.....Washington  
 Mitchell, Alexander J.....Jacksonville  
 Mitchell, Charles L.....Chicago  
 Mitchell, Theodore C.....Vicksburg  
 Mitchell, William A.....Lexington  
 Mize, Ralph C.....Tatoosh Island  
 Moery, Otto E.....Terre Haute  
 Molen, James P.....Groesbeck  
 Molyneux, Harold L.....St. Joseph  
 Monroe, Miss Doris V.\*.....Washington  
 Morris, David R.....New York  
 Morton, Robert H.....Washington  
 Mosby, Samuel L.....Washington  
 Moses, Fred I.....Royal Center  
 Mott, Merton P.....Block Island  
 Moxom, Walter J.....St. Louis  
 Mueller, Wilbern H.\*.....Seattle  
 Mullen, John P., jr.....Galveston  
 Murphy, George P.....Grand Junction  
 Murphy, John J.†.....Eastport  
  
 Nance, Edgar L.....St. Louis  
 Naughton, Percy J.....Port Arthur  
 Neifert, William W.....Hartford  
 Nelson, George C.\*.....Chicago  
 Nelson, Raymond A.....Los Angeles  
 Nesmith, Mark T.....Boston  
 Neumann, Adolph.....St. Paul  
 Newsom, John F.....Cape Henry  
 Neylans, Oscar S.....Leesburg  
 Nichols, Augustus B.....Atlanta  
 Nichols, Benjamin S.†.....Eureka  
 Nichols, Esek S.....Grand Junction  
 Nichols, John F.....Boston  
 Norquest, Clinton E.....Boise

- Norton, Grady ..... Meridian  
 Nourie, Adelard A. .... Washington  
 Noyes, G. Harold ..... Trenton  
 Nunn, Roscoe ..... Nashville  
 Oates, Walter A. † ..... New York  
 O'Brien, Clarence A. .... Washington  
 O'Connor, Gerald J. .... New York  
 O'Connor, John D. .... Chicago  
 O'Donnell, John J. .... Atlanta  
 Olsen, Edward J. .... Evansville  
 O'Neil, Daniel F. .... Washington  
 Ostrom, Ralph A. A. .... Jacksonville  
 Owen, Elbert A. .... Palestine  
 Palmer, Andrew H. .... San Francisco  
 Parker, Harold P. .... Madison  
 Parker, Orin ..... Bentonville  
 Parker, Perry \* ..... Twin  
 Parker, William N. .... Washington  
 Parks, Charles L. .... New York  
 Parrack, Cecil A. .... Del Rio  
 Parry, Benjamin ..... New York  
 Paterson, George ..... Washington  
 Patrick, Miss Adelaide L. †. Washington  
 Patrick, Henry R. .... Marquette  
 Patrick, Thomas ..... Washington  
 Patrick, William ..... Washington  
 Peacock, Matthew I. .... Eastport  
 Peck, Cecil R. † ..... Montgomery  
 Pennywitt, Henry ..... Pittsburgh  
 Pepera, John A. .... St. Paul  
 Perry, Harris M. .... Cape Henry  
 Peterman, Elton ..... Harrisburg  
 Petersen, Richard\* . . . Yellowstone Park  
 Peterson, Samuel P. .... Wichita  
 Phillip, George J., jr. .... Fort Wayne  
 Phillippi, John J.\* ..... New Orleans  
 Phillips, George W.\* ..... Washington  
 Piercy, Joseph C. .... Santa Fe  
 Piippo, Arthur F. .... Madison  
 Pindell, Lewis M. .... Chattanooga  
 Piper, Miss Effie B.\* ..... Reno  
 Pitman, George W. .... Cheyenne  
 Pittman, J. Melson ..... Raleigh  
 Plumb, Walter W. † ..... Augusta  
 Plummer, Ira C. .... Duluth  
 Plummer, William ..... Washington  
 Plummer, William, jr. .... Washington  
 Potter, Samuel A. .... Washington  
 Powell, Robert P. .... Parkersburg  
 Powers, J. Frederick ..... Burlington  
 Price, Betson D.\* ..... Richmond  
 Pugh, Arthur W. .... Los Angeles  
 Pugh, Berlin \* ..... Royal Center  
 Pugh, Horace L. .... Vicksburg  
 Pugh, Thomas O. .... Washington  
 Pursell, Ulysses G. .... Minneapolis  
 Quereau, Mrs. Bae B. .... Washington  
 Raplee, Jay W. .... Ithaca  
 Raplee, Llewellyn ..... New York  
 Rasmussen, Marius. .... Clallam Bay  
 Rauh, Edward L. G. .... Washington  
 Rauh, Oscar C. .... Washington  
 Rausch, Arthur A. .... St. Louis  
 Ray, Charles F.\* ..... Baltimore  
 Ray, Clifton L. .... Leesburg  
 Raynes, Harry ..... Macon  
 Reed, Charles D. .... Des Moines  
 Reed, Thomas E. .... New Haven  
 Reed, Thomas R. † ..... San Francisco  
 Reed, Wesley W. .... Atlanta  
 Reed, William F., jr. .... Pensacola  
 Reed, William G. † ..... Salt Lake City  
 Ree †, William J. .... San Francisco  
 Reeder, George ..... Columbia, Mo  
 Reihle, John A. .... Broken Arrow  
 Reynick, Alexander ..... Minneapolis  
 Rhea, William E. † ..... Fort Smith  
 Rheinfrank, Arthur C. † ..... Chicago  
 Rhodes, Frank J. .... Denver  
 Rice, Marcus A. † ..... Reno  
 Richards, (George M.) ..... Washington  
 Richardson, Charles H. .... Norfolk  
 Richardson, Herbert W. .... Duluth  
 Richart, Miss Stella C.\* ..... Cheyenne  
 Rietman, Herman L. .... Amarillo  
 Riley, William G. .... New York  
 Riols, Ralph A. .... Charleston  
 Rivera, Jose A. .... Santa Fe  
 Roberts, Orris W. .... Bismarck  
 Robins, Millard V. .... Omaha  
 Robinson, Benjamin ..... Washington  
 Robinson, Jesse C. .... Elkins  
 Roche, Henry H. .... Portland, Me  
 Roe, Elmer L. .... Toledo  
 Rogers, Orlin R. .... Columbia, Mo  
 Rogers, Roy J. † ..... Baltimore  
 Rohrer, Charles W. .... Washington  
 Root, Clarence J. .... Springfield, Ill  
 Rosenblum, Sam ..... St. Louis  
 Rosencranz, Leo E. .... Rapid City  
 Rosner, Leo † ..... Providence  
 Ross, Lewis C. .... Washington  
 Rubush, Theodore R. .... Indianapolis  
 Ryan, James P. .... Columbus  
 Ryker, John N. .... St. Paul  
 Sager, George V. .... Buffalo  
 Salisbury, George N. .... Seattle  
 Sampson, Harold M. .... Hartford  
 Samuels, Leroy T. .... Washington  
 Sanders, John E. .... Jacksonville  
 Sandridge, Norman ..... Washington  
 Sanford, Morgan R. .... Syracuse  
 Sanial, Albert D. .... La Crosse  
 Saunders, Stanley ..... Key West  
 Scarborough, William L. † ..... Hatteras  
 Scarr, James H. .... New York  
 Schaeffer, John W. .... Columbus  
 Schick, Charles O. .... Grosbeck  
 Schlomer, William B. .... Cincinnati  
 Schneider, Charles F. .... Grand Rapids  
 Schnuettgen, Miss Hildagard C. .... Little Rock  
 Schnurbusch, William J. .... St. Louis  
 Schuebel, Miss Irma E. .... Philadelphia  
 Schworm, Stanley S. .... Trenton  
 Scothorn, Cecil R. .... Omaha  
 Scott, Arthur H. .... Galveston  
 Scott, James H. .... Charleston  
 Seeley, Dewey A. .... Lansing



Walters, Leon K. W. ....	Reading	Whitney, Frank B.† .....	Denver
Walz, Ferdinand J. ....	Louisville	Whitney, Frank I. ....	Ellendale
Ward, Walter E. ....	Washington	Whittier, Bernard B. ....	Lansing
Warren, Leslie A. ....	Broken Arrow	Widmeyer, James I. ....	Wytheville
Washington, John D. ....	Washington	Wiesner, Abe. ....	Detroit
Washington, Rudolph. ....	Washington	Willhite, Erroll L.† .....	Wichita
Weber, William. ....	Washington	Williams, Alec R.† .....	Key West
Week, Fred H. ....	Springfield, Ill	Williams, Henry E. ....	Washington
Weed, Arthur J. ....	Washington	Williams, Robert C. ....	Lynchburg
Weeks, John R. ....	Binghamton	Williamson, Robert M. ....	Nashville
Weidman, Frank B. ....	Wichita	Wills, H. Merrill. ....	Springfield, Ill
Weightman, R. Hanson. ....	Washington	Willson, George H. ....	San Francisco
Weitz, Bernard O. ....	San Juan	Wilson, George N. ....	Lynchburg
Welch, Francis X.*. ....	Washington	Wilson, Harry J. ....	Chicago
Welch, George W. E. ....	Washington	Wilson, Joseph B. ....	Washington
Welch, Miss Margaret M. ....	Washington	Wilson, Wilford M. ....	Ithaca
Weld, Walter M. ....	Spokane	Wolf, Vernon N. ....	Washington
Weldon, Maranda R.*. ....	Columbia, Mo	Wood, Charles S. ....	Providence
Welfer, Reed S.† .....	Augusta	Woodworth, Charles A. ....	Boston
Wells, Edward L. ....	Portland, Oreg	Woolard, Edgar W. ....	Norfolk
Wells, Roy A. ....	Washington	Wright, Marsden. ....	Iola
Wells, William A.† .....	Topeka	Wyatt, William W. ....	Sacramento
Welsh, Lucius A. ....	Omaha	Wyland, Will L. ....	Wichita
West, Ralph C. ....	Port Huron		
Weston, La Verne. ....	Boise	Yoder, Lee O. ....	Bismarck
Wettrich, William K. ....	Cleveland	Young, Floyd D. ....	Portland, Oreg
White, Arkas E. ....	Royal Center	Young, Frederic A. ....	Washington
White, Clement R. ....	Cape Henry	Young, R. Frank. ....	Dayton
Whiteside, James L. ....	Washington		

UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

JULY, 1919.

## REPEAL OF DAYLIGHT SAVING LAW.

The bill repealing section 3 of the Daylight Saving Law, which was vetoed by the President, has been passed by both the House and the Senate over the veto. This finally disposes of the question and repeals that portion of the law approved March 19, 1918, which changes the clocks. The repeal act is worded as follows:

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 3 of the Act entitled "An Act to save daylight and to provide standard time for the United States," approved March 19, 1918, is hereby repealed, effective on the last Sunday of October, 1919, after the approval of this Act, when by the retarding of one hour the standard time of each zone shall be returned to and thereafter be the mean astronomical time of the degree of longitude governing each zone as defined in section 1 of said Act approved March 19, 1918.*

The repeal of the Daylight Saving Law will restore the observation and other activities of the Weather Bureau on October 26, 1919, and thereafter, to the same status as existed prior to the enactment of the law. The instructions and regulations that were issued in order to adapt the work of the Weather Bureau to the repealed law will be revoked formally at the proper time.

## "FLYING WEATHER" FORECASTS.

Among the many interesting developments of the world war is the prominence given to meteorological work and especially its application to aerial navigation. This has been recognized by the Army and Navy, and the personnel of the Weather Bureau is already acquainted with the intimate cooperation that existed with those organizations during the period of hostilities. This cooperation naturally resulted in the Weather Bureau being asked to assume the task of issuing advices and warnings in connection with the Navy's trans-Atlantic seaplane flight, and later for a similar service on the occasion of the visit of the British dirigible R-34 to this country. The success achieved on both occasions was extremely gratifying. An especially interesting feature of the service rendered the R-34 was in connection with the return flight. During all the time that the dirigible was moored at the flying field on Long Island advices were supplied three times daily to its commander concerning wind and weather conditions.

The night observations of July 10 indicated that unless the airship sailed immediately it would be subjected to danger of destruction. Accordingly, a rush message was sent to the commander at 9 p. m. Its departure at midnight under dramatic circumstances was fully chronicled in the public press. It was fortunate that the warning was acted upon so promptly. The next morning a half gale was blowing on Long Island, rain was falling, and the general atmospheric conditions were most dangerous for an airship unprotected on a flying field. In the meantime the ship was well on its homeward flight under exceptionally favorable wind and weather conditions. The following letters of appreciation were received from the Secretary of the Navy and Brig. Gen. L. E. O. Charlton, British Air Attaché:

Secretary Daniel's letter:

The work done by the Weather Bureau before, during, and after the visit of the British dirigible R-34 has been keenly appreciated by the Navy Department, and by the British officers connected with this flight. The reports received were most reliable, and the last report sent by Major Bowie on the evening of July 10 undoubtedly was the prime agent in the safe departure of the ship.

Extract from General Charlton's letter:

It is claimed that meteorology is the handmaiden of aeronautics, but I think that does not show the science enough respect. At any rate, you, by your assiduous attention to, and reading of, the weather during the visit, contributed more than a fair share to the success attained.

The demand for meteorological information as an aid to aerial navigation is urgent, and it is the desire and intention of the Weather Bureau to meet these demands. For some time special forecasts have been issued for the benefit of flyers engaged on various aeroplane postal routes. On August 10, 1919, what is known as "Flying Weather" forecasts were begun for the Army. These forecasts are issued from Washington, the country being divided into thirteen districts for which the forecasts are made. They are issued at 9:30 a. m. and p. m. daily, and are telegraphed to the Air Service of the Army for dissemination to air fields. Each district has been given a designating number, and a key chart supplied to all air fields. It is expected that arrangements soon will be made for the press services to handle these forecasts, for publication in newspapers located in the regions where flying is more or less general.

In the organic act creating the Weather Bureau, one of the primary requirements was the issuing of forecasts and warnings for the benefit of navigation, meaning at that time, of course, the navigation of waters. Subsequent laws and developments have given it a larger scope, to include the air. It behooves the bureau to be prepared to handle the new problems so vital to ships of the air, as successfully as it has aided the saving of life and property on the waters during the years since Congress planned and legalized its organization for that purpose.

**RESTORATION OF FURLOUGHED EMPLOYEES.**

The following employees of the Weather Bureau who were furloughed on account of military or naval service have been restored to duty and assigned to the stations indicated:

Davis, Milton W.....	San Francisco, Calif.
Knott, William J.....	Washington, D. C.
Peck, Cecil R .....	Ithaca, N. Y.
Rheinfrank, Arthur C.....	Leesburg, Ga.
Welfer, Reed S.....	Augusta, Ga.

**PURCHASE OF SUPPLIES FROM OTHER GOVERNMENT DEPARTMENTS.**

The cessation of war activities has made available in the Navy, War, and other departments of the Government considerable surplus material, supplies, and equipment, new or in serviceable condition. In the interests of economy Congress has directed that these supplies be utilized, *as far as possible*. Section 5 of the Deficiency Act of July 11, 1919, on the subject, reads as follows:

That the heads of the several executive departments and other responsible officials, in expending appropriations contained in this or any other act, so far as possible shall purchase material, supplies, and equipment, when needed and funds are available, from other services of the Government possessing material, supplies, and equipment no longer required because of the cessation of war activities. It shall be the duty of the heads of the several executive departments and other officials, before purchasing any of the articles described herein, to ascertain from the other services of the Government whether they have articles of the character described that are serviceable. And articles purchased by one service from another, if the same have not been used, shall be paid for at a reasonable price not to exceed actual cost, and if same have been used, at a reasonable price based upon length of usage. The various services of the Government are authorized to sell such articles under the conditions specified, and the proceeds of such sales shall be covered into the Treasury as a miscellaneous receipt: *Provided*, That this section shall not be construed to amend or repeal the Executive Order of December 1, 1918, concerning the transfer of office material, supplies, and equipment in the District of Columbia falling into disuse because of the cessation of war activities.

The chief clerk of the department, in communicating the above, states that—

In carrying out the provisions of the law quoted above it will be necessary for purchasing officers first to ascertain from other services of the Government possessing materials "no longer required because of the cessation of war activities" whether they have the particular articles desired and the location and price thereof.

All requisitions for purchases on stations must, of course, be submitted to this office for purchase order in the usual manner. Delays may occur in the issue of such purchase orders due to the necessity for making inquiry as to whether or not the articles can be had from the surplus Government stock, some of which may be at depots located in various sections of the country.

The law does not apply to services, nor to ordinary purchases of *expendable* property, such as oil, gasoline, etc., and minor stationery supplies under circular authority, nor to emergency repairs or supplies, properly certified to as such.

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**WEATHER BUREAU EXHIBITS AT STATE FAIRS.**

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There will be five circuits of Agricultural Exhibits touring the country this season, visiting about forty of the larger State fairs and expositions during August to November, inclusive.

A Weather Bureau representative, Mr. Willis E. Hurd, will accompany one of the exhibits, Circuit No. 5, which will be provided with a comprehensive display, including instruments. The remaining circuits will be in charge of employees of other branches of the department who are untrained in Weather Bureau work. The Weather Bureau exhibits in these cases will consist of two excellent panels, 8 feet by 4 feet in size, one of which contains mounts of enlarged pictures on meteorological subjects or those pertaining to the station and instrumental work of the bureau, and the other a full set of 10 weather charts, showing temperature, precipitation, humidity, and frost data for the United States. In addition, a model house is included, rodded with copper wire, to illustrate a method of securing protection from lightning, as described in detail in *Farmers' Bulletin 842—Modern Methods of Protection Against Lightning*, by Roy N. Covert.

It is believed that station officials in cities where these exhibits are to be installed during State or other fairs will be interested in the displays of the department, and may desire to participate in the demonstration work, perhaps with available extra material. Officials thus desiring to promote the public interests in the bureau may cooperate as fully as circumstances permit. At those fairs which he visits in person, our representative will also be glad of such advice or assistance in installation and demonstration of instruments as may, without detriment to the station duties, be offered.

The following list shows the circuit arrangements that have been made by the Office of Exhibits, in so far as they apply to fairs that can be visited readily by bureau officials:

Circuit No. 1. Mr. C. A. Lindstrom, Forest Service, leader.—Des Moines, Iowa, August 22-29; Helena, Mont., September 8-13; Salt Lake City, Utah, October 6-11; Phoenix, Ariz., November 3-8.

Circuit No. 2. Mr. F. L. Goll, Bureau of Plant Industry, leader.—Lincoln, Nebr., August 31-September 5; Topeka, Kans., September 8-13; Oklahoma City, Okla., September 20-27; Dallas, Tex., October 6-19; Chicago, Ill., November 29-December 6.

Circuit No. 3. Mr. T. F. Pappé, Bureau of Chemistry, leader.—Columbus, Ohio, August 25-29; Syracuse, N. Y., September 8-13; Reading, Pa., September 16-20; Richmond, Va., October 6-11; Shreveport, La., October 22-27; Jacksonville, Fla., November 15-30.

Circuit No. 4. Mr. B. L. Perkins, Bureau of Markets, leader.—Springfield, Ill., August 15-23; St. Paul, Minn., August 30-September 6; Milwaukee, Wis., September 8-13; Memphis, Tenn., September 20-27; Meridian, Miss., September 29-October 4; Birmingham, Ala., October 6-11; Atlanta, Ga., October 13-18; Macon, Ga., October 22-31.

Circuit No. 5. Mr. W. L. Morrison, Bureau of Animal Industry, leader.—Rochester, N. Y., September 1-6; Raleigh, N. C., October 20-25; Columbia, S. C., October 27-31; Greenville, S. C., November 3-8.

**VOCATIONAL EDUCATION FOR DISABLED SOLDIERS, SAILORS, AND MARINES.**

The Federal Civil Service regulations have been amended by an Executive order. The regulations, as amended, place upon the Federal Board for Vocational Education the responsibility of testing, training, and certifying to the United States Civil Service Commission disabled soldiers, sailors, and marines who desire to enter civil service employment. The amended regulations permit the fullest cooperation of Government agencies with the Federal Board in the vocational rehabilitation of men disabled in the War against Germany.

Arrangements for meeting this changed situation have been worked out by representatives of the Federal Board and the United States Civil Service Commission and stated in a publication of the Federal Board designated as C. L. H. No. 55, copy of which may be obtained by addressing the Federal Board for Vocational Education, Washington, D. C.

The Federal Board proposes to discharge its obligations under the amendments to the civil service regulations through cooperative arrangements with the Government departments, and through the expert advice, counsel, and assistance of Government officials and employees.

The amended regulations permit the Civil Service Commission to exempt a disabled soldier, sailor, or marine from the physical requirements, providing he has been tested or trained and certified by the Federal Board for Vocational Education. The Executive order also permits the Federal Board to utilize Government facilities and the services of Government officers and employees in the execution of this provision.

The Secretary has authorized all branches and officials of the Department of Agriculture to cooperate as fully as possible with the

officials of the Federal Board of Vocational Education in the execution of its duties.

In brief, the plan is to try out in Government offices disabled soldiers, sailors, and marines by a practical test on the job to determine if the disabled man has the physical ability to perform the work required. This does not imply that the person being tried out will be placed in the specific position for which he is being tested, but in a position elsewhere by regular methods under the amended civil service regulations.

It is recognized that at only a few stations the Weather Bureau has facilities for cooperation in the manner described, but it is desired that sympathetic consideration be given to all requests that may be received from representatives of the Federal Board for Vocational Education. In all such cases the applications should be promptly referred to the Central Office for detailed instruction, with a full statement of what is desired.

Representatives of the Board are in the following cities where Weather Bureau offices are located:

Boston, Mass.	Cleveland, Ohio.
Portland, Me.	Chicago, Ill.
New York, N. Y.	Detroit, Mich.
Philadelphia, Pa.	St. Louis, Mo.
Pittsburgh, Pa.	Kansas City, Mo.
Baltimore, Md.	Minneapolis, Minn.
Norfolk, Va.	Denver, Colo.
Atlanta, Ga.	San Francisco, Calif.
New Orleans, La.	Seattle, Wash.
Cincinnati, Ohio.	Dallas, Tex.

#### AMENDMENT TO FISCAL REGULATIONS REGARDING TIPPING.

The second section of Appendix F of the Fiscal Regulations has been amended by including Georgia among the States where tips or gratuities are not permitted and for which reimbursements will not be made.

Iowa is omitted for the reason that the antitipping law in that State has been held to be unconstitutional by the State supreme court.

#### ARTICLES FOR OUTSIDE PUBLICATION.

Attention is invited to the item, "Submission in duplicate of articles for publication", that appeared in the April, 1919, issue of TOPICS AND PERSONNEL with the request that, in addition to the suggestions contained therein, one of the two copies of manuscript submitted be the original; also, that both the original and duplicate be clear and distinct. The following extract is quoted from a communication on the subject by the Chief of the Division of Publications of the department to whom the articles in question are submitted:

The number of manuscripts submitted by employees of the department to be approved by the Secretary for printing in outside publications is increasing to such an extent that no small demand is made upon the time of the reviewer. It has occurred to me that this could be greatly lessened if an original manuscript, or at least first copy, were submitted, in order that the reading might be more rapid and easier. Many of the copies submitted are so indistinct as to cause considerable delay, as well as heavy strain upon the eyes of the reader. It also seems desirable that the original be submitted along with the copy for the Secretary's files, in order that when the approval is given any amendments that may have been made by the Secretary may appear upon the copy returned to the author.

The foregoing conforms with instructions recently issued by the Secretary of Agriculture.

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**REMINDERS.**

Forms or letters should not be placed between copies of telegraph messages or between sheets of circuit reports (Par. 672, S. R.) This instruction is frequently disregarded, and delays and unnecessary correspondence result.

Memorandum B/Ls, Dept. Form No. 20, when completed and ready for mailing to the Central Office, should be forwarded in an envelope addressed to *Division of Supplies* and not to the Stations and Accounts Division as is sometimes done.

Recommendations for substation appointments should be dated. The present supply of forms for this purpose does not bear a date line, but all communications should bear the date of their preparation.

In preparation of official correspondence, a margin of at least *one and one-half* inches should be left at the top of the page for all second and subsequent sheets of letters, as required by paragraph 297, Station Regulations, to facilitate attaching sheets together in flat filing system now in general use.

Card forms and reports which carry the penalty frank should not be inclosed in envelopes when forwarded to the Central Office. The practise is wasteful of material and entails additional work in the mail room.

Whenever a check is received by a Weather Bureau employee that is manifestly incorrect as to amount, either deficient or in excess, it should be promptly returned to the Central Office for correction, with letter of transmittal.

When a check is received with name misspelled, or incorrect initials, but otherwise correct, it need not be returned. It should be endorsed as drawn, and the correct name written underneath.

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**CHANGES IN PERSONNEL.**

The following, relative to changes in the personnel of the Weather Bureau during the month of July, 1919, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Anderson, Redfield A. F.	Concord, N. H. ....	Messenger, resigned; record, excellent.
Baker, James R.* .....	Ellendale, N. Dak. ....	Assistant observer, resigned; record, excellent.
Clark, William F. ....	Washington, D. C. ....	Promoted to clerk at \$1,400 from \$1,200.
Cockrill, Lawrence P.* ..	Washington, D. C. ....	Appointed clerk (draftsman) at \$1,000, temporarily, pending certification of eligibles.
Dague, Charles I. ....	Dallas, Tex. ....	Promoted to observer at \$1,440 from \$1,260.
Davis, Mrs. Katharine..	Washington, D. C. ....	Promoted temporarily to clerk at \$1,200 from \$1,000.
Dick, Harvey B. ....	Kalispell, Mont. ....	Appointed observer at \$1,260 by reinstatement.
Engell, Don Y. ....	Washington, D. C. ....	Promoted to clerk at \$1,400 from \$1,200.
Evans, Budd. ....	Denver, Colo. ....	Observer, resigned; record, poor.
Foley, Francis X. ....	Washington, D. C. ....	Appointed messenger boy at \$480.
Gibson, Thomas. ....	Portland, Oreg. ....	Assistant observer, died July 7, 1919.
Glennon, Henry J. ....	Trenton, N. J. ....	Messenger boy, resigned; record, good.
Hanlon, Michael E. ....	Galveston, Tex. ....	Apprentice, resigned; record, excellent.
Harris, Ralph E. ....	Washington, D. C. ....	Clerk, resigned; record, excellent.
Hayden, Francis S. ....	Rochester, N. Y. ....	Messenger, restored to duty on July 10, 1919, from furlough without pay on account of military duty.
Hendricks, Ernest J.* ..	Denver, Colo. ....	Assistant observer, temporary appointment terminated.
Johnson, Carl G.* .....	Minneapolis, Minn. ....	Messenger boy, resigned; record, good.
Kern, Thomas E. ....	Detroit, Mich. ....	Appointed assistant observer at \$1,080.
Kibler, James H. ....	Washington, D. C. ....	Appointed fireman and steamfitter at \$840; temporary appointment terminated.
Lansdale, Roger F. ....	Washington, D. C. ....	Clerk, temporary promotion announced in list of changes for May, 1919, made permanent.
Laskowski, Bernard R..	Alpena, Mich. ....	Restored to duty on July 16, 1919; from furlough without pay on account of military duty, and promoted to observer at \$1,440 from \$1,200.
Math, Frank A. ....	Topeka, Kans. ....	Observer, resigned; record, good.
Mitchell, Theodore C...	Vicksburg, Miss. ....	Messenger, resigned; record, excellent.
Parker, Perry. ....	Twin, Wash. ....	Appointed repairman at \$720; temporary appointment terminated.
Paterson, George. ....	Washington, D. C. ....	Clerk, resigned; record, excellent.

Appointments, promotions, reductions, etc.—Continued.

Names.	Stations.	Remarks.
Peck, Cecil R.....	Ithaca, N. Y.....	Assistant observer, restored to duty on July 16, 1919, from furlough without pay on account of military duty.
Pugh, Arthur W.....	Los Angeles, Calif.....	Promoted to meteorologist at \$1,620 from observer at \$1,440.
Rogers, Roy J.....	Baltimore, Md.....	Restored to duty on July 8, 1919, as assistant observer at \$1,080, from furlough without pay on account of military duty.
Schuebel, Miss Irma E..	Philadelphia, Pa.....	Messenger, resigned; record, good.
Serodino, Norbert R. <sup>1</sup> ..	San Diego, Calif.....	Promoted to messenger at \$600 from \$480.
Shomo, Harvey.....	Washington, D. C.....	Appointed messenger boy at \$480; temporary appointment terminated.
Smith, Horace E.....	San Francisco, Calif....	Assistant observer, removed from the rolls on account of insubordination.
Spangler, Hugh D.....	Bismarck, N. Dak.....	Appointed assistant observer at \$1,080.
Thrower, Albert J.*....	Washington, D. C.....	Compositor, resigned; record, good.
Welfer, Reed S.....	Augusta, Ga.....	Assistant observer, restored to duty on July 11, 1919, from furlough without pay on account of military duty.
Whitney, Frank B.....	Denver, Colo.....	Restored to duty on July 10, 1919, from furlough without pay on account of military duty, and promoted to assistant observer at \$1,080 from \$900.
Wiesner, Abe.....	Detroit, Mich.....	Observer, resigned; record, good.
Wilson, Harry J.....	Chicago, Ill.....	Messenger boy, resigned; record, excellent.
Wolf, Vernon N.....	Washington, D. C.....	Promoted temporarily to clerk at \$1,200 from \$1,000.
Young, R. Frank.....	Dayton, Ohio.....	Meteorologist, reduced to \$1,620 from \$1,800, because of preferred assignment.
Bemis, Charles N.....	New York, N. Y.....	} Promoted to observer at \$1,260 from assistant observer at \$1,080.
Brands, George J.....	Columbia, S. C.....	
Brooks, John W.....	Salt Lake City, Utah...	
Carroll, Louis W.....	Boston, Mass.....	
Day, Wilfred P.....	Chicago, Ill.....	
Diamond, Jay G.....	Helena, Mont.....	
Ellison, Eckley S.....	Seranton, Pa.....	
Hayes, Dallas B.....	Houston, Tex.....	
Herman, Kennen D....	Springfield, Ill.....	
Hickmon, Walter C....	Little Rock, Ark.....	
Labovich, William M...	Minneapolis, Minn....	
McGruder, Joseph F...	Cairo, Ill.....	
Miller, Ross O.....	Detroit, Mich.....	
Murphy, George P.....	Grand Junction, Colo..	
Norton, Grady.....	Meridian, Miss.....	

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Parker, Harold P.....	Madison, Wis.....	} Promoted to observer at \$1,260 from assistant observer at \$1,080.
Rausch, Arthur A.....	St. Louis, Mo.....	
Rogers, Roy J.....	Birmingham, Ala.....	
Sanial, Albert D.....	La Crosse, Wis.....	
Smith, Jesse W.....	Montgomery, Ala.....	
Springman, Herbert C..	Kansas City, Mo.....	
Thompson, Howard J...	Trenton, N. J.....	
Welfer, Reed S.....	Augusta, Ga.....	
Wells, Roy A.....	Washington, D. C.....	
Whitney, Frank B.....	Denver, Colo.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Danforth, Laurence H.*	Concord, N. H.....	
Glasner, Joseph A.*...	Philadelphia, Pa.....	
Henry, Ernest C.*.....	Kansas City, Mo.....	
Joel, Elbert E.*.....	Vicksburg, Miss.....	
Jones, Ellsworth F. P.*	Duluth, Minn.....	
McCarthy, Daniel J.*...	Dayton, Ohio.....	
Mazur, King*.....	Chicago, Ill.....	
Nichols, Archie P.*...	Richmond, Va.....	
Wathey, Charley L.*...	Minneapolis, Minn.....	} Messenger boy, temporary appointment terminated.
Wilcox, Russell W.*...	Trenton, N. J.....	
Herbert, Hector C.*...	Duluth, Minn.....	
Lockridge, James C.*...	Rochester, N. Y.....	
Taylor, Albert F.*.....	Washington, D. C.....	

\* Indicates temporary appointment.

<sup>1</sup> Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentees.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Adams, Henry P.....	Leesburg, Ga.....	Broken Arrow, Okla., assistant.
Brands, George J.....	Columbia, S. C.....	Trenton, N. J., assistant.
Dick, Harvey B.....	Kalispell, Mont.....	Roseburg, Oreg., in charge, pending further orders.
Finch, Ruy H.....	Washington, D. C.....	Kilauea, Hawaii, assistant.
Kern, Thomas E.....	Detroit, Mich.....	Milwaukee, Wis., assistant.
McCarthy, John C.....	Dayton, Ohio.....	Key West, Fla., assistant.
Pugh, Arthur W.....	Los Angeles, Calif.....	Dayton, Ohio, in charge.
Rogers, Roy J.....	Baltimore, Md.....	Birmingham, Ala., assistant, pending further orders.
Scothorn, Cecil R.....	St. Joseph, Mo.....	Omaha, Nebr., messenger boy.
Thompson, Howard J...	Trenton, N. J.....	New Orleans, La., assistant.
Yoder, Lee O.....	Bismarck, N. Dak.....	Pueblo, Colo., assistant.
Young, R. Frank.....	Dayton, Ohio.....	Los Angeles, Calif., assistant.

*C. H. Marvin.*

Chief of Bureau.

UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

AUGUST, 1919.

## BALLOON RACES AND NC-4 CRUISE.

Station officials have read of the United States Army and Navy balloon race from St. Louis, Mo., scheduled for September 25, and the long recruiting cruise, beginning on September 23, of the famous naval flying boat, NC-4; but as the press reports have made little or no comment on the work of the Weather Bureau in connection with these events, it is thought that a brief statement of this phase of the work will be of interest.

The Army and Navy balloon race will be a straightaway race, and the balloon that covers the longest distance in a straight line before descending to the earth will be declared the winner. There will be probably six contestants, three from the Navy and three from the Army. Lieut. W. F. Reed, jr., U. S. N., formerly in charge of the Weather Bureau station at Pensacola, Fla., will be the meteorological officer for the Navy, and will be in one of the Navy balloons.

The meteorological portion of the work, which will be performed by the Weather Bureau, will be quite elaborate and may be summarized as follows:

1. Morning and evening pilot balloon observations of wind directions and velocities from sixteen stations, of which five belong to the Weather Bureau, eight to the Signal Corps of the Army, and three to the Navy, will be taken on the day previous and during the race, and telegraphed to St. Louis, and, if possible, communicated by radio to such of the balloons as have the necessary apparatus.
2. Complete observational reports from all Weather Bureau stations will be sent to St. Louis on the day previous and during the race.
3. Forecasts will be issued from the Central Office covering the same periods, giving the weather indications for the districts north and east of St. Louis, and the probable directions and velocities of the winds both at the surface and aloft.

It may be remarked incidentally that a second balloon race, known as the National balloon race, will take place from St. Louis on October 1. The contestants in this race will not be officially connected with the Army or Navy. Information of the character indicated above also will be furnished by the Weather Bureau.

The NC-4 flying boat will start from Rockaway Beach, L. I., with Atlantic City, N. J., as its first objective. A return journey will be made on the following day, and on September 25 the boat will leave for Portland, Me., from which place the route will extend down the coast to the Florida Straits, thence over the Gulf of Mexico to Pensacola and New Orleans, up the Mississippi and Ohio Rivers to Cincinnati, down the Ohio River to its mouth, up the Mississippi River to St. Louis, down the same river to its mouth, and thence across the Gulf of Mexico to Galveston, returning by way of Mobile and Pensacola. The flying boat will be accompanied by the U. S. S. *Isabel*, with Lieut. J. B. Anderson, U. S. N., as meteorological officer. Stops of one or more days' duration will be made at all important places along the route. It is expected that the journey will consume a period of nearly three months.

During this cruise the Weather Bureau will furnish information as follows:

1. A. m. and p. m. forecasts of weather and wind directions and velocities, both surface and aloft, for the aviation zone in which the flying boat happens to be at the time, with special forecasts regarding the movement and intensity of such storms as may occur.

2. Complete a. m. and p. m. observational reports and forecasts will be furnished the meteorological officer of the Navy by such regular Weather Bureau stations as may be visited by the boat, and telegraphed to other points from the nearest Weather Bureau station.

#### RESTORATION OF FURLOUGHED EMPLOYEES.

The following employees of the Weather Bureau who were furloughed on account of military or naval service have been restored to duty and assigned to the stations indicated:

Altman, Peter.....	Spokane, Wash.
Gottlich, Samuel.....	Corpus Christi, Tex. (temporarily.)
Harder, Robert G. W.....	Washington, D. C.
Klinge, Robert N.....	Montgomery, Ala.
Johnson, Paul E.....	Atlantic City, N. J. (temporarily.)

#### JAMES R. RIGGS, ASSISTANT SECRETARY OF AGRICULTURE.

Mr. James R. Riggs assumed his duties as Assistant Secretary of Agriculture on September 22, 1919. A brief sketch of Mr. Riggs's life appeared in the September 17, 1919, issue of the News Letter.

#### IMPROPER USE OF PENALTY ENVELOPES AND CARDS.

Recently one of the bureaus of the Department of Agriculture distributed a circular containing a list of publications issued by it. The following statement appeared in the circular, in which a postal card was inclosed:

By signing your name and address and mailing the inclosed postal card, which requires no stamp, you can obtain any or all of the publications named below.

The Post Office Department took exception to this procedure and in connection therewith made the following statement:

While the law relative to the penalty privilege, embodied in section 496, Postal Laws and Regulations, provides that—

“Any department or officer authorized to use the penalty envelopes may enclose them with return address to any person or persons from or through whom official information is desired, the same to be used only to cover such official information, and indorsements relating thereto”, this is applicable only in cases where persons are requested to furnish “official information” desired by a department or officer of the Government, and the provision does not contemplate that penalty envelopes or cards shall be furnished, as in this instance, to enable persons to mail free of postage requests for publications which the persons may desire. Such requests do not constitute “official information” within the meaning of the statute quoted, but clearly relate to the personal business of the individuals making the requests. The requests are, consequently, properly chargeable with postage and it would seem that the persons sufficiently interested in any publications which a department or officer of the Government may have to distribute should be willing to pay postage on requests therefor.

I will thank you to take such steps as may be necessary to have the practice referred to discontinued. In this connection it is suggested that, if for any reason it may be deemed desirable to furnish post-cards with reply address for the convenience of the public in ordering Governmental publications, this may be done provided the penalty indicia be omitted and in lieu thereof the words “place postage stamp here” or some similar inscription be printed in the upper right corner of the address side of the cards in the space where it is customary to affix stamps in payment of postage.

The foregoing is promulgated for the information and guidance of the officers and employees of the Weather Bureau.

MONTHLY WEATHER REVIEW.

Some of the major topics planned for the next few issues of the Monthly Weather Review are as follows:

- September number: Rainfall.
- October number: Clouds and cloud observations.
- November number: Marine meteorology.
- December number: Agricultural meteorology.

It is hoped that, as before, there will be a number of papers or notes submitted on these subjects. Discussions of other topics, however, should not be withheld, for it is desirable that a range of subjects wide enough to interest all should be included in each issue. Brief notes on occasional interesting features in local weather, summaries of meteorological discussions, comments or additional information on matter published in the Review, and abstracts or reviews of articles or meteorological portions of books are solicited.

AMENDMENTS TO REGULATIONS.

*Fiscal Regulations.*—Paragraphs 83 (*p* and *q*) and 86 (*e*) have been further amended to authorize reimbursement to an employee for

transfer of himself and baggage between his residence in a suburb of his official station and the depot of the official station at the beginning and the ending of official travel. Payment in excess of 50 cents for transfer of himself or baggage, owing to higher locally prevailing rates, must be explained in writing.

Paragraph 86 (j) by the insertion of the following language:

In addition to actual operating charges or mileage rates (not exceeding 8 cents per mile for a motorcycle and 7 cents per mile for an automobile) allowed in lieu of actual operating charges, employees using their own motor-propelled vehicles in official work may be reimbursed for storage charges when storage becomes necessary at points other than official or temporary headquarters. Where it becomes necessary by reason of breakdowns, impassable roads, or miring to have vehicles towed partly, or, under extraordinary circumstances, entirely to destination, reimbursement may be made for reasonable expense of such towage, but all such charges must be fully explained, and each case will be considered on its merits. No allowance or reimbursement will be made for the cost of repairs or replacements to any vehicle, or for towage of same to any place for the purpose of having repairs made. If, however, it is possible to have the vehicle repaired *at a place on the direct route to destination*, towage charges to such place will not be construed as incurred primarily for that purpose and may, as herein provided, be allowed.

*Administrative Regulations.*—Paragraph 35 has been changed to read as follows:

“Good” shall be the minimum rating of efficiency which must be obtained by an employee in order to be promoted; “Fair” shall be the minimum rating which must be attained by an employee in order to continue in his present grade. An employee receiving the rating of “Fair” shall receive due notice thereof in writing from the chief of bureau at the time the rating is given, with suggestions as to possible means of improving his efficiency. He shall also be advised that if his subsequent service shows further decrease in efficiency, the question of his demotion or dismissal will be considered. A rating of “Poor” will immediately raise the question of his demotion or dismissal.

The printed amendments to the revised regulations will be issued to stations as soon as received.

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#### DEATH.

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Mr. Charles H. Heckelsmiller, unskilled laborer, was killed by lightning at Ellendale, N. Dak., on August 28, 1919. Mr. Heckelsmiller had served only ten days and was struck while assisting in a kite flight. Immediate efforts for resuscitation were made and two physicians were on the scene within 15 minutes. A severe burn was found across Mr. Heckelsmiller's chest and on the inner side of his right wrist. The kite flight was nearly completed and three of the six kites had been landed. It appears that Mr. Heckelsmiller was holding a splice wire in his hand and was standing close to the main kite wire when the flash occurred. At the time of the flash two employees were in the reel house and they state that the house was filled with flame. A line of sparks resembling a huge skyrocket was seen to

follow up the wire and these set the grass beneath on fire, as the ground was very dry, no rain having fallen for nearly two weeks. About 1,750 meters of wire were out at the time, and it was completely fused in the air. This is the first accident of its kind that has occurred to an employee of the Weather Bureau during the period of about 25 years in which the Weather Bureau has engaged in kite observation work.

**CHANGES IN PERSONNEL.**

The following, relative to changes in the personnel of the Weather Bureau during the month of August, 1919, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Anderson, G. Louie*...	Seattle, Wash . . . . .	Messenger boy, resigned; record, good.
Asher, Charles D. . . . .	Tatoosh Island, Wash..	Promoted to observer at \$1,440 from \$1,260.
Bacon, Charles M. . . . .	Grand Rapids, Mich...	Assistant observer, resigned; record, good.
Ball, William A.*. . . . .	Washington, D. C. . . . .	Appointed laborer (unskilled) at \$600, temporarily, pending certification of eligibles.
Beck, Miss Anne L.*. . . .	San Francisco, Calif. . . .	Repairman, resigned; record, good.
Bell, Miss Mary E. . . . .	Washington, D. C. . . . .	Clerk, temporary promotion announced in list of changes for June, 1919, made permanent.
Benson, Earl*. . . . .	Galveston, Tex. . . . .	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Bethards, Mrs. Agnes C.*	San Francisco, Calif. . . .	Appointed repairman at \$720, temporarily, pending certification of eligibles.
Birch, William A. . . . .	Ellendale, N. Dak . . . . .	Laborer (unskilled), resigned; record, excellent.
Buys, Paul. . . . .	Salt Lake City, Utah. . . .	Promoted to printer at \$1,080 from \$1,000.
Christman, Rudolph B. . . .	Drexel, Nebr. . . . .	Laborer (unskilled), resigned; record, fair.
Clifton, Roy C. <sup>1</sup> . . . . .	Taylor, Tex. . . . .	Promoted to messenger at \$720 from \$600.
Coller, Mrs. Elizabeth F. . .	Washington, D. C. . . . .	Name changed on the rolls from Miss Elizabeth H. Forbes.
Connaroe, Henry. . . . .	Eric, Pa. . . . .	Messenger, resigned; record, excellent.
Curtis, Charles V.*. . . . .	Key West, Fla. . . . .	Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Davis, Earl R.*. . . . .	Oklahoma, Okla. . . . .	Messenger boy, resigned; record, good.
Davis, Mrs. Katharine. . . .	Washington, D. C. . . . .	Reduced to clerk at \$1,000 from \$1,200, without prejudice, because of the return of an employee from leave of absence without pay.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Davis, Milton W.....	San Francisco, Calif...	Restored to duty on September 1, 1919, from furlough without pay on account of military duty, and promoted to observer at \$1,260 from assistant observer at \$900.
Dickson, Royal A.....	Drexel, Nebr.....	Appointed laborer (unskilled) at \$600.
Dudley, John W.*.....	Washington, D. C.....	Laborer (unskilled), resigned; record, fair.
Esslinger, W. Houston..	Broken Arrow, Okla...	Laborer (unskilled), resigned; record, excellent.
Esslinger, W. Houston*..	Broken Arrow, Okla...	Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Evans, Clarence W.....	Washington, D. C.....	Appointed messenger boy at \$480.
Fox, Harold S.....	Washington, D. C.....	Clerk (draftsman), on furlough for military duty, resigned; record excellent.
Gottlich, Samuel.....	Corpus Christi, Tex....	Restored to duty on August 26, 1919, from furlough without pay on account of naval duty, and promoted to observer at \$1,260 from assistant observer at \$900.
Graeff, Earl W.....	Cape Henry, Va.....	Promoted to observer at \$1,260 from assistant observer at \$1,080.
Hawkins, Miss Laura F.	Washington, D. C.....	Clerk, resigned; record, excellent.
Haynes, Mrs. Alice H...	Washington, D. C.....	Clerk, resigned; record, excellent.
Hecklesmiller, Charles H	Ellendale, N. Dak....	Appointed laborer (unskilled) at \$720.
Hecklesmiller, Charles H	Ellendale, N. Dak....	Laborer (unskilled), died August 28, 1919.
Hill, Perry R.....	Portland, Oreg.....	Promoted to observer at \$1,440 from \$1,260.
Jennings, Thomas J....	Washington, D. C.....	Appointed lithographer at \$1,200; temporary appointment terminated.
Joel, Elbert E.*.....	Vicksburg, Miss.....	Messenger boy, resigned; record, good.
Kahrs, William D.*.....	Augusta, Ga.....	Assistant observer, resigned; record, excellent.
Kaufholz, Miss Maud*..	Topeka, Kans.....	Appointed messenger at \$480, temporarily, pending certification of eligibles.
Kelsey, Keith.....	San Francisco, Calif...	Assistant observer, resigned; record, excellent.
Kern, Thomas E.....	Milwaukee, Wis.....	Assistant observer, resigned; record, good.
Klinge, Robert N.....	Montgomery, Ala.....	Restored to duty on August 25, 1919, from furlough without pay on account of military duty, and promoted to apprentice at \$600 from \$480.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Knott, William J. ....	Washington, D. C. ....	Messenger boy, restored to duty on August 6, 1919, from furlough without pay on account of naval duty.
Lederer, Edwin R. ....	Washington, D. C. ....	Appointed clerk at \$1,000.
McAuley, Johnston C., jr	Washington, D. C. ....	Appointed instrument maker at \$1,260.
Mazur, King*.....	Chicago, Ill.....	Messenger boy, resigned; record, good.
Meisinger, Clarence L..	Washington, D. C. ....	Appointed observer at \$1,440.
Meserole, Miss Irene V.	Washington, D. C. ....	Clerk, resigned; record, good.
Monroe, Miss Doris V.*.	Washington, D. C. ....	Messenger, temporary appointment terminated.
Mueller, Wilbern H.*...	Seattle, Wash.....	Messenger boy, resigned; record, good.
Nance, Edgar L.....	St. Louis, Mo.....	Printer, resigned; record, excellent.
O'Toole, Morgan.....	Washington, D. C. ....	Appointed messenger boy at \$480.
Patrick, Miss Adelaide L.	Washington, D. C. ....	Clerk, restored to duty on August 16, 1919, from leave of absence without pay.
Petersen, Richard.....	Yellowstone Park, Wyo.	Appointed messenger boy at \$600; temporary appointment terminated.
Piper, Miss Effie B.*....	Reno, Nev.....	Assistant observer, temporary appointment terminated.
Plumb, Walter W.....	Augusta, Ga.....	Messenger boy, on furlough for military duty, resigned; record, excellent.
Reed, William G.....	Salt Lake City, Utah..	Meteorologist, resigned; record, excellent.
Rheinfrank, Arthur C..	Leesburg, Ga.....	Assistant observer, restored to duty on August 6, 1919, from furlough without pay on account of military duty.
Rhodes, Frank J.....	Denver, Colo.....	Messenger boy, resigned; record, good.
Rosner, Leo.....	Providence, R. I.....	Messenger boy, on furlough for military duty, resigned; record, excellent.
Shehi, Willis S.....	Topeka, Kans.....	Messenger boy, resigned; record, good.
Shomo, Harvey.....	Washington, D. C. ....	Messenger boy, resigned; record, good.
Smith, N. LeRoy*.....	Broken Arrow, Okla...	Assistant observer, resigned; record, good.
Smith, William L.....	Washington, D. C. ....	Appointed messenger boy at \$600; temporary appointment at \$480, under the name of W. Lawrence Smith, terminated.
Spear, Max F.....	Terre Haute, Ind.....	Promoted to messenger boy at \$600 from \$480.
Suga, Kesaburo.....	Kilauea, Hawaii.....	Appointed laborer (unskilled) at \$480.
Teal, Raymond M. <sup>1</sup> ....	Los Angeles, Calif....	Promoted to messenger at \$600 from messenger boy at \$480.
Walker, Charles W.....	Washington, D. C. ....	Promoted to clerk at \$1,000 from \$900.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Wathéy, Charley L.*...	Minneapolis, Minn.....	Messenger boy, resigned; record, good.
Wilcox, Russell W.*...	Trenton, N. J.....	Messenger boy, resigned; served but a few days.
Williams, Alec R.....	Key West, Fla.....	Assistant observer, on furlough for military duty, resigned; record, good.
Allen, Maxwell W.....	Reno, Nev.....	} Appointed assistant observer at \$1,080.
Bollinger, John R.....	Milwaukee, Wis.....	
Ralston, James C.....	Columbia, S. C.....	
Mahaffey, Cecil E.....	Greenville, S. C.....	} Appointed messenger boy at \$480; temporary appointment terminated.
Mellichamp, Pierre.....	Columbia, S. C.....	
Smith, Paul C.....	Washington, D. C.....	
Anderson, G. Louie*...	Seattle, Wash.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Corniea, Leo Dwight*...	Minneapolis, Minn.....	
Gesford, John C.*.....	Oklahoma, Okla.....	
Hobson, Dean E.*.....	Denver, Colo.....	
Jones, Clarence O.*.....	Erie, Pa.....	
McLaughlin, Ambrose T.*	Trenton, N. J.....	
Mallette, Baker H.*....	Vicksburg, Miss.....	
Wedderburn, William H. S.*	Seattle, Wash.....	

\* Indicates temporary appointment.

<sup>1</sup> Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Asher, Charles D.....	Tonopah, Nev.....	Tatoosh Island, Wash., in charge.
Donnel, Charles A.....	Washington, D. C.....	Chicago, Ill., assistant.
Laskowski, Bernard R..	Alpena, Mich.....	Topeka, Kans., assistant.
Lindgren, Gustave S....	Pensacola, Fla.....	Charlotte, N. C., in charge.
Mize, Ralph C.....	Tatoosh Island, Wash..	Portland, Oreg., assistant.
Piercy, Joseph C.....	Santa Fe, N. Mex.....	Tonopah, Nev., in charge.

*C. H. Marvin.*

Chief of Bureau.

UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

SEPTEMBER, 1919.

## INTERDEPARTMENTAL BOARD ON METEOROLOGY.

The important benefits resulting from the application of meteorological principles in the direction and control of navigation of the air, as also major artillery and other military and naval operations, has led to certain kinds of meteorological work becoming a more or less permanent activity of the War and Navy Departments. This has resulted in numerous informal conferences between representatives of the Weather Bureau and the other departments, and the whole subject has finally been recognized as of such importance as to justify the organization of a more or less permanent interdepartmental board selected to discuss and consider the relative needs of the departments and the arrangement of cooperation and coordination of work to accomplish these results in the most economical and advantageous fashion and in a manner to avoid unnecessary duplication. The board was created by the Secretary of War, acting for and by direction of the President, and is as follows:

\* \* \* I hereby appoint a board to consider the question of the collection and dissemination of meteorological data and to make recommendations:

- Lieut. Col. Horace Hickam, Air Service.
- Lieut. Col. W. R. Blair, Signal Corps.
- Lieut. Tunis A. M. Craven, U. S. Navy.
- Lieut. (Junior Grade) C. N. Keyser, U. S. Navy.
- Prof. Charles F. Marvin, Chief of Weather Bureau.
- Mr. R. H. Weightman, Meteorologist, Weather Bureau.

\* \* \* \* \*  
 The order further designates Prof. Charles F. Marvin as chairman of the board and provides that meetings shall be held at the office of the Chief of the Weather Bureau and other places at such times as may be designated by the chairman.

But few meetings of the board have been held as yet, but it is obvious that an interdepartmental agency of this character provides for the most effective coordination and cooperation between the departments interested. It is probable also that other departments of the Government that are interested in flying, as the Post Office Department, for example, may be requested to designate representatives.

It is expected that important provisions will be made for the enlargement of the meteorological work of the bureau in the interest of civil and military aeronautics.

**RESTORATION OF FURLOUGHED EMPLOYEES.**

The following employees of the Weather Bureau who were furloughed on account of military or naval service have been restored to duty and assigned to the stations indicated:

Murphy, John J .....	Eastport, Me.
Rice, Marcus A .....	Reno, Nev.

**WAR RISK INSURANCE.**

The following quotation is made from a statement of Col. R. G. Cholmeley-Jones, Director of the Bureau of War Risk Insurance, which it is believed will be of interest to a considerable number of Weather Bureau employees who were in the military or naval service of the United States:

Second thoughts are best.

One of the first thoughts of many ex-service men was to let their war risk insurance drop just as soon as they got out of khaki. Some ex-service men are now having their second thoughts about this insurance business and are getting back into line. For instance, Alvin Cullum York, well known as America's hero of the world war, let his insurance expire after he was discharged, but on the 20th of September he reinstated his insurance for the full amount of \$10,000. Uncle Sam stands ready to pay \$10,000 on York's life, and his dependents are thus as well protected in peace times as they were at the time when he, single handed, performed the greatest individual feat of heroism in the War with Germany. Colonel York (he is a colonel on the staff of the Governor of Tennessee) had, under the liberal rulings of the Treasury Department, only to pay two months' insurance premiums, although he paid his last premium in June. He is now covered by his insurance up to the end of October, the next premium becoming payable on the 1st day of November. Thus, for \$7 a month York is getting \$10,000 insurance. York carried insurance in private insurance companies, but he thought Uncle Sam's insurance was good enough for him to take hold of again.

All ex-service men who let their insurance go ought to follow his example and have their Government insurance premium brought up to date.

Get back in line before it is too late.

**PRECAUTIONS AGAINST LOSS OF RECORD BOOKS.**

Recently the climatological record book at one of the stations of the bureau was lost under circumstances which emphasize the necessity for care in the protection of valuable records against loss. A visitor was given desk facilities and handed the book for the purpose of extracting certain data. A second visitor came in later. The book was left on the desk by the first visitor and allowed to remain instead of being immediately returned to its proper place by employees of the office. It is presumed that the second visitor took the book away with him, as it was missed shortly after his departure. His name was not ascertained, and all efforts to locate him or the book through police and secret service agencies failed. It is inadvisable for the Central Office to attempt to issue detailed instruc-

tions concerning the granting of facilities for outside parties to extract data from records in the office, as station conditions vary widely. However, it is incumbent upon officials in charge to take reasonable precautions in such cases. In the case in question the suspected visitor's name and responsibility was unknown and the book was left in his possession under circumstances in which it was an easy matter for him to leave the office unknown to any employee and with an extremely valuable record book in his possession.

THE INSPECTION OF SPECIAL RIVER STATIONS.

A few years ago, under a cooperative arrangement with the Water Resources Branch of the Geological Survey, the inspection of a number of special river stations of the Weather Bureau was made by engineers of that service.

The scarcity of engineers, due to the exigencies arising out of the war, brought this arrangement to a close. Doubtless some of the Weather Bureau officials in charge of river centers, not knowing the reason for this action on the part of the Central Office, looked upon the innovation as an intrusion on their privileges. It will be the object of this note to outline the purpose in having inspections of river stations made by trained engineers.

The inspection of a special river station calls for two distinct lines of examination, both of importance: First, as to the performance of the regular duties of making, recording, and dispatching observations, also having in view the ascertainment of a measure of the accuracy of the work in general. The second line of examination is purely technical and includes a determination by precise leveling of the elevation of the zero of the gage with respect to the nearest bench-mark, the establishment of a convenient bench-mark, if none exists, the checking of the gage graduations, and the making of repairs to the gage, if any be needed. Weather Bureau officials, with but few exceptions, have not been prepared to conduct that portion of the work involving the use of leveling instruments, and it was therefore possible for a serious error in the zero gage, due to one or more of several causes, to escape detection for many years with the order of inspections given by Weather Bureau officials. Hence the Central Office was glad to avail itself of the opportunity to have its river gages adjusted by persons skilled in that sort of work. Whether the cooperation will be renewed can not now be stated. In the meantime Weather Bureau officials are being authorized to inspect river stations in their respective districts, and while it is not practicable in all cases to redetermine the correctness of the zero elevations, in some cases city authorities may be inclined to do the work without charge, especially if the city maintains an engineering service.

A steel tape can generally be borrowed from the Central Office.

This is quite necessary in the inspection of stations having a chain and weight or Mott form of gage.

A chain and weight gage should never be inspected without accurately measuring with a steel tape the distance from the marker to the end of the weight and, moreover, a permanent mark should be made on the bridge floor, or elsewhere, whenever practicable, of the exact distance between the two points mentioned, and the river observer should be instructed to measure the chain for stretch at least every six months. The adjustment in the top of the weight will permit of taking up the error found in the length of chain. Mott gage tapes should also be accurately measured.

The Central Office prefers to install staff gages whenever possible to do so, and will not interpose objections thereto whenever circumstances warrant such action and funds are available. Any form of gage in which the measuring device is concealed seems to excite the curiosity of people, and there is generally a small element of the viciously inclined in each neighborhood that will destroy public property when the risk of detection is slight.

It is always preferable to have slight repairs to gages made when the inspector is on the ground, indeed in many cases he can make them himself.

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#### LIABILITY OF GOVERNMENT EMPLOYEES FOR EMERGENCY POLICE DUTY.

An official in charge of a certain Weather Bureau station reported that during a strike of the employees of a street-car company disorders developed in which cars and the company's buildings were attacked, and several persons were killed. The city police were not sufficient to cope with the situation, and until State troops arrived civilians were forced to do guard duty. A house to house canvass was made for the purpose of recruiting the emergency police force. The official in charge in reporting the matter made the following inquiry:

Could they have forced any member of the Weather Bureau force to serve? It was a case where life and property had to be protected.

The matter was referred to the solicitor of the department for an opinion, from which the following extract is quoted:

The general principles of law set forth in the opinion referred to by you as to the liability of Government employees to perform jury service are applicable to their service as special policeman, i. e., that Government employees, when in the actual service of the United States, can not be called upon to serve a State in any capacity incompatible with their duties as Federal employees.

However, care should be observed in applying these principles, and in order to relieve an employee from police duty in case of an emergency it would be necessary to show that at the time he was called on to act as a policeman such service would interfere with his duties to the Federal Government. The Federal, as well as the State, Government has an interest in the maintenance of order and the preservation of property. It is obvious, therefore, that the ques-

tion as to whether an employee of the Federal Government can be called upon for police duty in an emergency is one that should be dealt with not as a technical legal proposition, but as a matter of comity under the facts of each particular case.

#### EXAMINATION FOR SOLAR RADIATION ASSISTANT.

The United States Civil Service Commission has announced a competitive examination for solar radiation assistant in the Weather Bureau, for men only, on November 19, 1919, to be held at the various places at which examinations for assistant observers are usually held. A candidate for this position must have had experience involved in a physics laboratory course on heat and light covering at least one semester, or six months of outside practical experience in similar work. Otherwise, the examination is about the same as that usually required for assistant observer, with added questions relating to solar radiation work.

The object of this examination at this time is to fill two positions that are now being held by temporary appointees. Permanent employees of the bureau are not specially interested in this examination, as its rank is coordinate with that of assistant observer, but the examination should be brought to the attention of temporary assistant observers, who by reason of age or marital condition are not eligible to take the assistant observer examination.

#### TRANSFER OF STATION PRINTER POSITIONS TO CIVIL SERVICE DISTRICT SYSTEM.

Appointments of printers at field stations under the present system are made as the result of civil service examinations that are country-wide, and it has been difficult to find eligibles who are willing to accept appointment to vacancies, especially when expense for a journey is involved. Therefore recommendation has been made to the Civil Service Commission that these positions be transferred to the Civil Service District System. When this is done, it is believed that some of the difficulties that have been experienced in filling vacancies in the field will be overcome. The procedure in effecting appointments of printers under the district system, should this recommendation be approved, will be similar to that now followed in making appointments to the positions of messengers, repairmen, etc., detailed instructions for which are contained in paragraphs 121-134, Station Regulations, and paragraphs 79-87, Administrative Regulations. Formal notice will be issued when the transfer is effected.

#### NOTES FROM REPORTS OF INSPECTORS.

It has frequently been found that when anemometers are changed for the regular monthly reading the cups are not changed at the same time. This practise results in accumulation of objectionable deposits of black dirt upon the cups and their supporting cross-arms.

Station officials are reminded that whenever anemometers are taken down for cleaning the entire instrument should be thoroughly cleaned. It is recognized that at some stations where the cups are exposed to a considerable amount of smoke and soot, the carrying out of this suggestion will probably require a third set of cups for exhibit purposes, and in such cases the additional set will be supplied upon request accompanied by suitable explanation.

The observance of the provisions of Par. 325, S. R., is urged upon all officials of the bureau. There have been recent evidences that typewriters have not been kept in good condition.

#### BREAKING OF BATTERY JARS.

At some stations the breakage of a number of glass battery jars, some of the breaks occurring after the jar has been set up for some time, indicates an unfamiliarity with properties of glass. After glass has been heated the cooling takes place first in those portions of the glass near the surface, particularly the outer surface, and then in the interior. As a result the entire structure is under stress, resembling somewhat the condition of a metal wheel upon which a steel tire, expanded by heat, has been shrunk. This condition of stress will at times cause the structure to give way weeks or months later. A safe procedure is to mix the electrolyte by adding the caustic soda a little at a time, so as not to generate an undue amount of heat, or to mix the caustic soda in a separate jar used for that purpose alone and transfer the mixture to its permanent jar after it has partially cooled. Much of the difficulty may be obviated by setting the jar upon wood or other non-conductive material and wrapping several thicknesses of newspaper around it while it is cooling, in order that the cooling process may take place slowly and evenly throughout all portions of the glass. Drafts of air that strike but one side of the jar during the cooling process must be guarded against.

#### UNLAWFUL USE OF MAIL-SACKS.

A communication has been received from the Postmaster General concerning the improper use of mail-sacks. Employees of the Weather Bureau are cautioned that the use of mail-sacks for the storing or handling of records, waste paper, trash, or for private use is a violation of the postal laws, and care should be taken to see that those received from the Post Office Department are emptied of their mail contents and returned as promptly as possible to the postal authorities. (See Par. 261, Adm. Reg.)

#### REMINDERS.

Form 4016-Mis. should be mailed not later than the third day of each month, in order to insure timely shipments of blank cards, bul-

letins, etc., which are required. Failure to make prompt report of these forms has necessitated numerous emergency shipments from one station to another, which would have been unnecessary if Form 4016-Mis. had been forwarded at the proper time. This form should be rendered every month whether or not additional supplies are required immediately.

Recommendations for the appointment of temporary assistant observers should be made direct to the Central Office, and not through the civil service district secretary. The latter has no jurisdiction over the appointment of temporary assistant observers.

#### CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of September, 1919, is published for the *exclusive* information of employees of the Weather Bureau:

#### *Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Allen, Charles T.*.....	Washington, D. C.....	Clerk, resigned; record, good. Restored to duty on September 20, 1919, from furlough without pay on account of naval duty, and promoted to messenger at \$600 from \$360.
Altman, Peter.....	Spokane, Wash.....	
Bancroft, William D.*..	Lincoln, Nebr.....	Appointed solar radiation assistant at \$1,080, temporarily, pending certification of eligibles; temporary appointment as assistant observer terminated.
Bethurum, Murl E.....	Dallas, Tex.....	Apprentice, resigned; record, fair.
Bowles, Chessor O.....	Broken Arrow, Okla...	Laborer (unskilled), resigned; record, excellent.
Brown, Charles R.*.....	Lansing, Mich.....	Messenger boy, resigned; record, fair.
Brown, Lansing Van W.	Spokane, Wash.....	Messenger, resigned; record, good.
Buffat, Roy S.*.....	Knoxville, Tenn.....	Assistant observer, resigned; record, good.
Carpenter, Ford A.....	Los Angeles, Calif.....	Meteorologist, resigned; record, excellent.
Cookrill, Lawrence P...	Washington, D. C.....	Appointed clerk (draftsman), at \$1,000; temporary appointment terminated.
Davis, Mrs. Katharine <sup>1</sup> .	Washington, D. C.....	Promoted to clerk at \$1,200 from \$1,000.
DeForest, John S.....	Washington, D. C.....	Promoted to clerk at \$1,400 from \$1,200.
Flynn, Bernard P.....	Washington, D. C.....	Messenger boy, resigned; record, good.
Foley, Francis X.....	Washington, D. C.....	Messenger boy, resigned; record, good.
Ford, Neal C.....	Ludington, Mich.....	Messenger boy, resigned; record, excellent.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Frnka, Jasno L.....	Washington, D. C.....	Promoted to clerk at \$1,000 from minor clerk at \$900.
Gildersleve, George H.*.	Grand Rapids, Mich...	Assistant observer, resigned; served but a few days.
Glasner, Joseph A.*....	Philadelphia, Pa.....	Messenger boy, resigned; record, good.
Griffiths, Alfred E.....	Huron, S. Dak.....	Apprentice, resigned; record, good.
Gross, Philip H. <sup>1</sup> .....	Atlantic City, N. J.....	Promoted to messenger at \$720 from \$600.
Hall, Miss Louise*.....	Montgomery, Ala.....	Assistant observer, temporary appointment terminated.
Hamrick, Andrew M...	Washington, D. C.....	Meteorologist, resigned; record, excellent.
Harder, Robert G. W...	St. Joseph, Mo.....	Restored to duty on September 10, 1919, from furlough without pay on account of naval duty, and promoted to clerk at \$1,200 from assistant observer at \$1,080.
Hardy, Erle L.*.....	Santa Fe, N. Mex.....	Appointed solar radiation assistant at \$1,080, temporarily, pending certification of eligibles; temporary appointment as assistant observer terminated.
Hibbard, Foy N.....	Duluth, Minn.....	Appointed observer at \$1,260, by reinstatement.
Johnson, Clifton E.....	Port Angeles, Wash...	Appointed repairman at \$1,200; temporary appointment as assistant observer at \$1,000 terminated.
Johnson, Paul E.....	Atlantic City, N. J.....	Restored to duty on September 11, 1919, from furlough without pay on account of military duty, and promoted to observer at \$1,260 from assistant observer at \$1,080.
Jones, Matthew G.....	Savannah, Ga.....	Messenger, resigned; record, excellent.
Justice, Alonzo A.....	Dodge City, Kans.....	Reduced to observer at \$1,260 from meteorologist at \$1,440, to offset allowance of quarters, fuel, and lights.
Keiter, I. Martin*.....	Raleigh, N. C.....	Assistant observer, resigned; record, excellent.
Kennedy, Miss Helen W.*	Washington, D. C.....	Appointed clerk at \$1,000, temporarily, pending certification of eligibles.
Knott, William J.....	Washington, D. C.....	Messenger boy, resigned; record, excellent.
Knott, William J.*.....	Washington, D. C.....	Appointed folder and feeder at \$720, temporarily, pending certification of eligibles.
Lawton, George E.....	Philadelphia, Pa.....	Observer, reduced at his request to \$840 from \$1,260, to serve four hours a day.
Leenhouts, Miss Mildred S.*	Milwaukee, Wis.....	Assistant observer, resigned; record, excellent.

Appointments, promotions, reductions, etc.—Continued.

Names.	Stations.	Remarks.
McAuley, Johnston C., jr.	Washington, D. C.....	Instrument maker, resigned; served but a short time.
McCabe, Edward G.*...	Dallas, Tex.....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
McCarthy, Daniel J.*...	Dayton, Ohio.....	Messenger boy, resigned; record, good.
McGrew, Arthur M.....	North Platte, Nebr.....	Messenger, resigned; record, excellent.
Mellichamp, Pierre.....	Columbia, S. C.....	Messenger boy, resigned; record, poor.
Miller, Robert L.....	Washington, D. C.....	Clerk, resigned; record, excellent.
Moery, Otto E.....	Terre Haute, Ind.....	Promoted to observer at \$1,440 from \$1,260.
Mott, Merton P. <sup>1</sup> .....	Block Island, R. I.....	Promoted to messenger at \$600 from messenger boy at \$480.
Nelson, Thomas J.....	Washington, D. C.....	Appointed minor clerk at \$900.
Patterson, Mrs. Katie B.*	Washington, D. C.....	Appointed clerk at \$900, temporarily, pending certification of eligibles.
Phillipp, George J., Jr. <sup>1</sup>	Fort Wayne, Ind.....	Promoted to messenger at \$600 from messenger boy at \$480.
Reck, Leo G.*... ..	Ludington, Mich.....	Messenger boy, resigned; served but a few days.
Rosenblum, Sam.....	St. Louis, Mo.....	Messenger boy, resigned; record, excellent.
Satterthwaite, Miss Evalena.*	Washington, D. C.....	Appointed clerk at \$900, temporarily pending certification of eligibles.
Searight, Mrs. Sophie L.*	Washington, D. C.....	Appointed clerk at \$1,000, temporarily, pending certification of eligibles.
Seu, Allen G. Akim*...	Kilauea, Hawaii.....	Appointed mechanic at \$1,000, temporarily, pending certification of eligibles.
Shea, Edward C.*.....	Spokane, Wash.....	Assistant observer, temporary appointment terminated.
Stevenson, Herbert F.*.	Little Rock, Ark.....	Assistant observer, resigned; record, excellent.
Taeschner, Oliver H.*..	Chicago, Ill.....	Assistant observer, resigned; record, good.
Tamplin, Howard B.*...	Dayton, Ohio.....	Messenger boy, temporary appointment terminated.
Tuttle, Gerald E.....	Scranton, Pa.....	Messenger boy, resigned; record, fair.
Ulrich, William L.....	Erie, Pa.....	Messenger boy, on furlough without pay, resigned; record, excellent.
Walz, Ferdinand J.....	Louisville, Ky.....	Professor of meteorology, furloughed without pay from September 4, 1919, to December 8, 1919, inclusive, on account of ill health.
Welch, Francis X.*.....	Washington, D. C.....	Messenger boy, resigned; record, good.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Abbott, Donald H.* . . . .	Grand Rapids, Mich . . . .	} Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Bennett, Richard L.* . . . .	Little Rock, Ark . . . . .	
Fowler, J. Lyman* . . . . .	Knoxville, Tenn . . . . .	
Gildersleeve, George H.* . . . .	Grand Rapids, Mich . . . .	
Heming, Thomas D.* . . . .	Detroit, Mich . . . . .	
Hodges, Lawrence M.* . . . .	Portland, Oreg . . . . .	
Mountcastle, Burton L.* . . . .	Richmond, Va . . . . .	
Shea, Edward C.* . . . . .	Spokane, Wash . . . . .	
Sledge, Louis A.* . . . . .	Augusta, Ga . . . . .	
Smith, Charles E.* . . . . .	Ellendale, N. Dak . . . . .	
Torrence, Everett W.* . . . .	Santa Fe, N. Mex . . . . .	
Baker, Robert H . . . . .	Broken Arrow, Okla . . . .	} Appointed laborer (unskilled) at \$720.
Latch, William M . . . . .	Broken Arrow, Okla . . . .	
Kirschner, William F . . . . .	Ellendale, N. Dak . . . . .	
Bennett, Thomas R . . . . .	Washington, D. C . . . . .	} Appointed messenger boy at \$480.
Joyce, Joseph A . . . . .	Scranton, Pa . . . . .	
McCarthy, Daniel J . . . . .	Dayton, Ohio . . . . .	
Parks, Edgar K . . . . .	Washington, D. C . . . . .	
Brant, Irvin E.* . . . . .	Ludington, Mich . . . . .	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Cunningham, Leo I.* . . . .	Philadelphia, Pa . . . . .	
Hathaway, C. Elwyn* . . . .	Lansing, Mich . . . . .	
Patton, William W.* . . . .	St. Louis, Mo . . . . .	
Preston, Joseph E.* . . . .	Terre Haute, Ind . . . . .	
Reck, Leo G.* . . . . .	Ludington, Mich . . . . .	
Tamplin, Howard B.* . . . .	Dayton, Ohio . . . . .	
Youngberg, Clyde M.* . . . .	Chicago, Ill . . . . .	

\* Indicates temporary appointment.

<sup>1</sup> Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Bush, Carl L . . . . .	Washington, D. C. . . . .	Charleston, S. C., assistant.
Dick, Harvey B . . . . .	Roseburg, Oreg. . . . .	Spokane, Wash., assistant.
Faulk, Maurice C. . . . .	Thomasville, Ga. . . . .	Elkins, W. Va., in charge.
Feldwisch, Walter F. . . . .	North Head, Wash. . . . .	Raleigh, N. C., assistant.
Gottlich, Samuel . . . . .	Corpus Christi, Tex. . . . .	Washington, D. C., observer.
Hadley, Olin M. . . . .	Elkins, W. Va. . . . .	Thomasville, Ga., in charge.
Harder, Robert G. W. . . . .	St. Joseph, Mo. . . . .	Washington, D. C., clerk.
Hersey, Henry B. . . . .	Milwaukee, Wis. . . . .	Los Angeles, Calif., in charge.
Hill, Perry R. . . . .	Portland, Oreg. . . . .	North Head, Wash., in charge.
Johnson, Paul E. . . . .	Atlantic City, N. J. . . . .	Ellendale, N. Dak., assistant.
Labovich, William M. . . . .	Minneapolis, Minn. . . . .	Milwaukee, Wis., assistant.
Neumann, Adolph. . . . .	St. Paul, Minn. . . . .	Minneapolis, Minn., assistant.
Plummer, Ira C. . . . .	Duluth, Minn. . . . .	Chicago, Ill., assistant.
Rogers, Roy J. . . . .	Birmingham, Ala. . . . .	Denver, Colo., assistant.
Schick, Charles O. . . . .	Groesbeck, Tex. . . . .	Fort Wayne, Ind., assistant.
Stewart, William P. . . . .	Terre Haute, Ind. . . . .	Milwaukee, Wis., in charge.
Weld, Walter M. . . . .	Spokane, Wash. . . . .	Wagon Wheel Gap, Colo., assistant.
Welfer, Reed S. . . . .	Augusta, Ga. . . . .	Honolulu, Hawaii, assistant.

*C. A. Martin.*

*Chief of Bureau.*

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UNITED STATES DEPARTMENT OF AGRICULTURE.

## WEATHER BUREAU TOPICS AND PERSONNEL

OCTOBER, 1919.

### RESULT OF BALLOON RACES.

The following extracts are made from the report of the official in charge of the St. Louis, Mo., Weather Bureau station, relative to the balloon races which were referred to in the August, 1919, issue:

The St. Louis office was visited frequently by contestants and officials of both races, who desired a considerable amount of general and special information. Most of the contestants wanted special information, in line with their individual ideas of what was most important. Some wanted back files of weather maps, others wanted tabulations of heights of cirrus clouds, etc. All the information called for was furnished promptly. Weather Bureau headquarters was established at the balloon field on September 26, with direct telephonic communication with the Weather Bureau office and with the Western Union telegraph office. The observations received from the various aerological stations, and the special forecast from the Central Office, were duplicated by typewriter and furnished to contestants and officials shortly before the start.

On October 1 the undersigned was at the field, in communication with officials and contestants, and furnished the officials and contestants the afternoon forecasts received from the Central Office, and wind and barometer readings from the local office.

The forecast advising against the start on October 1 was brought to the attention of all connected with the race, but the unanimous opinion was that the start should be made as scheduled, and it was made. \* \* \* The upper air forecasts were duplicated and furnished to balloon headquarters. The morning forecast on October 1 was printed on the bottom of the weather map; each contestant and official was furnished a copy of the map. The afternoon forecast of October 1, advising against a start, as scheduled, was immediately telephoned to Maj. A. B. Lambert at the balloon field, and given to the newspapers. The forecast was duplicated, taken to the field, and a copy given to each official and contestant. After a consultation of pilots and officials it was decided to make the start at 6 p. m., the time previously set.

The Army-Navy race was won by the balloon operated by Capt. F. T. Phillips and Lieut. Byron T. Burt, which came down in Lake Michigan about 20 miles off shore from Marinette, Wis., the distance being a little more than 480 miles. The balloon in which Lieut. William F. Reed, jr., U. S. N., formerly official in charge of the Weather Bureau office at Pensacola, Fla., was meteorological officer, was third in the race. The finish of the first three in the race was very close, there being a difference of only about 8 miles between the first and third contestants.

The national balloon race was won by Ralph Upson, of Akron, Ohio, in balloon Goodyear, who landed at Dunham, Quebec, a distance of 1,020 miles.

An unfortunate casualty occurred in connection with the national balloon race in which one of the balloons was lost in Lake Huron, and its two occupants drowned. This race was started under unfavorable conditions, and tempestuous weather was experienced by all the contestants. A special forecast sent by Forecaster E. H. Bowie to St. Louis on that day for the benefit of the contestants read as follows:

No change from forecast sent this morning. At noon today "Low" central over eastern South Dakota. Pressure falling rapidly eastward to the Great Lakes. Considered inadvisable for balloons to start this afternoon, as they will be carried northward toward the Great Lakes, where they will encounter squalls and thunder-storms late to-night and Thursday. Advise it be postponed.

#### ARMY TRANSCONTINENTAL AEROPLANE RACE.

The Weather Bureau cooperated with the Air Service of the Army during the recent transcontinental aeroplane race by furnishing forecasts and advices twice daily to the fliers during the entire time that the race was on, October 8 to 31, 1919. Lieut. B. W. Maynard was declared the winner in elapsed time. The following quotation is made from the News Bulletin, issued by the Air Service, commenting on Lieutenant Maynard's achievement:

Lieutenant Maynard's wonderful time was due to the fact that he took advantage of the splendid service rendered by the Weather Bureau in sending the weather forecasts to all of the control stops. If he had been informed that the weather would be bad for the next control stop, he would immediately take off and get to this stop before the storm approached. This enabled him to gain a distinct advantage over the other participants at the very outset of the race.

#### PACIFIC VESSEL WEATHER SERVICE.

A vessel weather reporting service for sections of the North Pacific Ocean similar to that in operation for several years past on the waters adjacent to our Atlantic and Gulf coasts and in the Carribean Sea has been established. Arrangements will be made with masters of vessels sailing from San Francisco and Seattle to take two observations daily while en voyage in certain defined regions and forward them by radio and telegraph to the San Francisco office.

The service will be under the supervision of the official in charge of the San Francisco office, and it is expected that it will be of marked value in the preparation of the forecasts for the Pacific coast regions.

#### DAYLIGHT SAVING LEGISLATION.

The repeal of the daylight saving law which was announced in the July, 1919, issue appeared to have disposed of this much discussed question in so far as it concerned in any serious way the work of the Weather Bureau; but subsequent action on the part of several municipi-

palties in passing ordinances changing clocks to one hour later in the spring and back again in the fall and the possibility that similar action may be taken by other cities has such an important bearing on the effectiveness of the service rendered by the bureau to the business and other interests in cities where such laws have been or may be passed that it is believed appropriate to inform station officials of the position the bureau must take in the matter. This is made convincing by the fact that in one of the largest cities in the country, where the passing of a daylight saving act was under consideration, the city officials inquired if, in the event of such a law being made effective, the time of issuance of forecasts, maps, bulletins, etc., by the bureau would be changed to correspond therewith.

The original act of Congress contains four sections (Par. 595a, S. R.). The act of repeal relates only to section 3 which has to do with the arbitrary changing of the clocks. Sections 1, 2, and 4 remain in force.

Section 2 is particularly important in the present situation. It reads as follows:

That within the respective zones created under the authority hereof the standard time of the zone shall govern the movement of all common carriers engaged in commerce between the several States or between a State and any of the Territories of the United States, or between a State or the Territory of Alaska and any of the insular possessions of the United States or any foreign country. In all statutes, orders, rules, and regulations relating to the time of performance of any act by any officer or department of the United States, whether in the legislative, executive, or judicial branches of the Government, or relating to the time within which any rights shall accrue or determine, or within which any act shall or shall not be performed by any person subject to the jurisdiction of the United States, it shall be understood and intended that the time shall be the United States standard time of the zone within which the act is to be performed.

This law is mandatory and defines the time that shall be used in Government and interstate operations. Therefore, regardless of individual or official opinions on the subject or its effect on business interests of the communities where contrary laws are enacted, the time prescribed by the United States laws must be adhered to by the Weather Bureau. The time of taking regular observations will be 8:00 a. m. and 8:00 p. m., 75th meridian time. The hours fixed in regulations for the dissemination of forecasts, reports, bulletins, maps, and other general information to meet local needs will be strictly observed, nor will it be permissible to take additional observations or to return to the earlier hour for distributions to meet local conditions.

The march of time is inexorable and can not be controlled by man-made laws or other human effort. Legislation can describe and define the standards of time, but its passage is measured only by astronomical sequences and by clocks which perform in synchrony therewith. The arbitrary changing of clocks mars the true chronology of events,

confuses history, involves scientific comparisons, and presents many other objectionable features. If it is advantageous to place the hours of labor within daylight, laws can be made to meet the situation without tampering with the clocks.

Backward, turn backward, O Time, in your flight,  
 The clocks in this country are turned back to-night.  
 Oh, we are so weary of time fixed by man,  
 How happy we are to get back to God's plan!  
 The daylight we've saved, O, where has it gone?  
 The nights were so short, and the days were so long.  
 The clocks said 'twas daytime, long, long before light,  
 And long before sunset they said it was night.  
 Our stomachs said noon, and so did the sun,  
 But all of our clocks declared it was one,  
 The whistles said six—Dear me, sakes alive!  
 The sun and our feelings both said five.  
 Now all you good people, give heed every one,  
 The right time of day is told by the sun.  
 God's timepiece, the sun, governs time with its light,  
 So turn your clocks backward, and do it to-night.

—*Springfield (Ill.) State Journal, October 25, 1919.*

#### FORECASTS (P. M.) OBTAINABLE FROM RADIO STATIONS.

Weather Bureau stations on the Great Lakes that are in telephone communication with naval radio stations may receive the p. m. forecasts that are broadcasted from Washington by calling up the radio stations after 10 p. m.

#### NEW FORM OF NEPHOSCOPE.

In order better to meet present day demands for information as to upper air movements, a new cloud nephoscope has been designed, and 100 stations will be equipped as soon as the nephoscopes can be obtained from the manufacturers. Requisitions for nephoscopes received for a year or more past have not been acted upon, because it is desired that old types be discontinued as rapidly as possible. It is expected that some of the new instruments will be available in three or four months. Requisitions may be made therefor at any time. It is hoped that within a year all regular observing stations can be equipped.

#### IMPORTANCE OF CLOUD OBSERVATIONS.

The extension of the aviation forecasting service and the increasing appreciation of the possibilities of using detailed observations of cloud forms and movements in weather forecasting and in many classes of meteorological studies have brought the bureau to the point of revising its methods of cloud observations, a cloud committee having been appointed for that purpose. Both greater accuracy and

somewhat greater volume of cloud observations are needed. The new nephoscope, referred to above, will make possible greater accuracy in observing movements of clouds, but such observations of movements will lose much of their value unless both form and probable height of the clouds at each level are carefully observed and recorded. In order that observers should be ready to make a good start when the new program is put in operation, it is recommended that they review definitions, descriptions, and pictures of cloud forms, and keep a closer watch on the clouds than usual. As an aid in clearing up doubtful points and in standardizing the bureau's cloud observations, an article on clouds will be published in the October issue of the Monthly Weather Review.

**AUTOMOBILIST DISREGARDS WEATHER FORECAST.**

A Kansas City automobilist was arrested for exceeding the speed limit. He stated that the weather was mild when his wife and daughter left home for the theater, and that he advised that they do not wear heavy wraps, although the published forecast was for a decided drop in temperature. A cold wave set in before the performance was over and he realized that his wife and daughter would suffer discomfort and exposure on their return home without adequate wraps. With only ten minutes until the performance closed, he backed his car from the garage, and throwing heavy coats on the seat, started for the theater at an excessive rate of speed. The court, in imposing the usual fine, announced that the official forecast was for a decided drop in temperature and that as he admitted that he had read the forecast his excuse was not admissible.

**RESTORATION OF FURLOUGHED EMPLOYEE.**

The following employee of the Weather Bureau who was furloughed on account of naval service has been restored to duty and assigned to the station indicated:

Keller, Andrew P ..... Sandusky, Ohio.

**COMPTROLLER'S DECISIONS.**

**WEARING APPAREL.**

In disallowing an account for the payment of a pair of heavy Army shoes purchased for an employee of the Department of Agriculture engaged in field work in Florida, where the shoes were needed for work in thickets and snake-infested areas, to prevent injury to limbs, as well as protection against poisonous snake bites, the comptroller said:

Shoes, even of the type herein indicated, are clearly personal furnishings—a necessary part of the wearing apparel of an officer or employee—and, in the absence of authority of law therefor, can not be furnished at the expense of the Government.

## STREET-CAR FARES.

The Secretary of Agriculture recently addressed a letter of inquiry to the Comptroller of the Treasury regarding the conditions under which employees in a travel status might be reimbursed for street-car fares.

So much of the reply, which was of considerable length and in which laws and previous decisions were cited, as is essential to a clear understanding thereof, is quoted:

*Actual expenses.*—Where an employee is traveling on an actual expense basis street-car fare between the employee's temporary residence or place of abode and the place of performance of temporary duty is reimbursable, as all of his actual and necessary expenses within the limits fixed by law, while away from his permanent post of duty, are reimbursable. A different rule prevails where an employee is paid a per diem in lieu of subsistence.

*Per diem expenses.*—It is not within the power of the employee to establish, by his own act, an official headquarters at his hotel or place of abode merely for the purpose of obtaining reimbursement for car fare.

I will now reply to your questions *seriatim*, the questions and answers relating only to employees traveling on a per diem basis.

1. In a city where an established field headquarters is not maintained by any bureau of the department and the employee is required to use his hotel or other temporary place of abode as an office, is such employee while in a travel status entitled to reimbursement for street-car fares expended?

(a) Between his hotel or other temporary place of abode (and office) and the place in the city he is officially required to visit, if the duration of his stay in the city is only one day and he is required to visit only one place.

(b) Between his hotel or other temporary place of abode (and office) and the first and last places in the city he is officially required to visit, if the duration of his stay in the city is only one day and he is required to visit two or more places.

(c) Between his hotel or other temporary place of abode (and office) and the place in a suburb of the city or in a near-by town he is officially required to visit, where hotel or other accommodations are not available, if the duration of his stay in the city is only one day and he is required to visit only one place.

(d) Between his hotel or other temporary place of abode (and office) and the place in the city he is officially required each day to visit, if the duration of his stay in the city is more than one day and the same place is visited each day.

(e) Between his hotel or other temporary place of abode (and office) and the place in the city he is officially required to visit, if the duration of his stay in the city is more than one day and a different place is visited each day.

(f) Between his hotel or other temporary place of abode (and office) and the place in a suburb of the city or in a near-by town he is officially required to visit, where hotel or other accommodations are not available, if the duration of his stay in the city is more than one day and the same place is visited each day.

All of the foregoing questions are answered in the negative.

2. In a city where a bureau of the department maintains an established field headquarters and the employee finds it impracticable to use such established headquarters of the bureau as his headquarters, and therefore uses his hotel or other temporary place of abode as an office, is he entitled to reimbursement for street-car fares expended under the conditions set forth in sections (a) to (f), inclusive, paragraph 1?

No.

8. In a city where a bureau of the department maintains an established field headquarters, and the employee uses such established field headquarters as an office, is such employee while in travel status entitled to reimbursement for street-car fares expended?

(a) Between his hotel or other place of abode and the place or places in the city he is officially required to visit, other than the established field headquarters,

No.

(b) Between the established field headquarters and the place or places in the city he is officially required to visit.

As has been stated, the "official station" from which car fare expended in the performance of his duties should be considered as reimbursable is the place or places in a city where an employee has official duties to perform or is officially required to visit. If an employee in a city for a limited time, of his own initiative establishes his temporary headquarters in a field headquarters of one of the bureaus of the department, using such temporary headquarters mainly, if not solely, for the purpose of preparing reports and answering correspondence, such selection by him of temporary headquarters will not change the rule as to reimbursement for car fares. If, however, an employee's orders or duty requires him to report at such established field headquarters, and operate therefrom, or if his stay in a city is of such duration as warrants the establishment of temporary headquarters, and such headquarters are established in the field headquarters of one of the bureaus of the department, the rule as to reimbursement of car fare expended in the prosecution of his work announced in 20 Comp. Dec., 546,\* would apply. This question is answered accordingly.

#### §240 INCREASE.

An employee transferred from one department or establishment to another, who received the increase before transfer, need not be certified in order that he may continue to receive it under the position to which transferred, and an employee receiving the increase who resigned and was reinstated need not be certified after reinstatement, reinstatement under such circumstances, not being considered an entry into the service within the meaning of the statute, but under a new appointment, as distinguished from a transfer or a reinstatement, including appointment from the reemployment register, an employee can receive the increase of compensation only upon certification.

This amendment is rendered necessary by a decision of the Comptroller of the Treasury of October 18, 1919, and an informal interpretation thereof, holding that former employees of the Bureau of War Risk Insurance who received the increase of compensation, and who, after their connection with the bureau had been completely severed therefrom, became employees of the Department of Agriculture, for all practical purposes must be considered new employees, and, in order to receive the increase of compensation in this department, must be certified by the secretary as contemplated by the act, notwithstanding their former certification.

#### EXAMINATION FOR ASSISTANT OBSERVER.

The Civil Service Commission has announced an examination to be held December 10, 1919, for appointments to the position of assistant observer in the Weather Bureau at an entrance salary of \$1,080 per annum. The examination will include the same subjects as previous examinations of this character and will be limited to unmarried male citizens that have reached their eighteenth, but not their thirty-fifth, birthday on the date of the examination.

#### WEATHER BUREAU LISTING IN TELEPHONE DIRECTORIES.

Paragraph 210 of Station Regulations prescribes the form of listing Weather Bureau offices in local telephone directories. These instruc-

\*An officer or employee who is required, in the performance of his duties, to go from place to place within the limits of his official station is not to be regarded as in a travel status so as to be entitled to reimbursement for actual personal expenses. But if an expense is necessarily incurred at said station for car fare incident to the accomplishment of a work specifically appropriated for, reimbursement therefor from the appropriation for such work is authorized.

tions have been in effect for several years and were issued for the purpose of securing uniformity. During the past few years a system has grown up in many cities, especially large ones, of listing all United States Government offices in a separate section. Compliance with our regulations which requires listing under the letter "W" has resulted in the Weather Bureau being omitted from the Government section or necessitating a duplicate entry. Revision of the existing regulations is under consideration, but before taking final action expressions of opinions are desired from station officials where a system of a separate Government section in telephone directories is in vogue as to the desirability and advantages of a revision.

#### STATION PREFERENCES.

Attention is invited to the opportunity which is given all permanent station employees to change their expressed preferences for station assignment on Form 4047-Mis. The following is quoted from instructions appearing on that form, because in many instances its provisions are overlooked:

To be filled out, in duplicate, and forwarded by all new appointees (except those holding temporary or emergency appointments) immediately after taking the oath of office; also by employees whose station or salary has been changed, or that *desire to make any change in their previously expressed preference* for station assignment; also annually on the 1st of June by all station employees, except those holding temporary or emergency appointments. Prompt action in the rendition of preference cards is important.

Upon receipt of preference cards at the Central Office, they are assembled into complete and comprehensive up-to-date indexes of station preferences which are invariably consulted with every contemplated change of station assignment. Supplemental letters detailing personal explanations and considerations in regard to preferences are cross indexed and filed with the same record. While such expressed preferences do not exclusively govern the action taken by the Central Office, they are of considerable assistance and importance in arriving at decisions in regard to transfers and assignments.

Reference is made to this now, as it occasionally occurs that certain transfers and special assignments are not entirely acceptable to employees, although they were made in accordance with the latest expressed preference of the individual.

Therefore, it is quite important that the opportunity to change preferences from time to time and to express them to the latest date shall be utilized by all permanent employees. Of course there may be, and frequently are, reasons that transfers and assignments be made not entirely according to preferences expressed, but such preferences are followed, as far as consistent with the best interests of the service.

THE UNLAWFUL USE OF MAIL-BAGS.

A brief notice relating to the unlawful use of mail-bags appeared in the September, 1919, issue. The Postmaster General has issued a small poster on the subject. These posters will be mailed to stations at an early date, and it is requested that one be appropriately placed in all offices where it is customary to use mail-sacks in the receipt and dispatch of mail.

REMINDERS.

Many telephone accounts are being received for payment which can not be audited without returning them or calling for omitted data. Attention is invited to an item on this subject that appeared in the November, 1916, issue of this publication, which if followed, will result in such accounts being properly stated for payment.

Triple register sheets can best be held to the cylinder by rubber bands 1/8 inch wide by 3 1/2 inches long. These are known as size No. 33. Stations having none on hand may obtain a small quantity from the Supplies Division by requisition. Only a small supply will be furnished because of the tendency of rubber to deteriorate with age.

CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of October, 1919, is published for the exclusive information of employees of the Weather Bureau:

Appointments, promotions, reductions, etc.

Names.	Stations.	Remarks.
Aiken, Charles L.*.....	Richmond, Va .....	Appointed messenger at \$480, temporarily, pending certification of eligibles.
Anderson, Morton A...	Washington, D. C.....	Messenger boy, on furlough for military duty, resigned; record, excellent.
Baker, Mrs. Alice*.....	Huron, S. Dak.....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Baker, Miss Lucille*...	Washington, D. C.....	Appointed clerk at \$900, temporarily, pending certification of eligibles.
Baker, William S.*.....	Fort Wayne, Ind.....	Assistant observer, resigned; record, excellent.
Beesley, George.....	Sekiou, Wash .....	Repairman, restored to duty November 1, 1919, from furlough without pay, on account of the temporary closing of the station.
Benson, Earl*... ..	Galveston, Tex.....	Apprentice, temporary appointment terminated.
Bethards, Mrs. Agnes G.*	San Francisco, Calif....	Repairman, temporary appointment terminated.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Brady, Eugene E., sr....	New Orleans, La.....	Promoted to printer at \$1,080 from \$1,000.
Brands, George J.....	Trenton, N. J.....	Observer, resigned; record, excellent.
Brightenburg, Allen C..	Lincoln, Nebr.....	Promoted to compositor at \$1,850 from printer at \$1,000.
Byrnes, Michael J.....	Mobile, Ala.....	Messenger boy, resigned; record, good.
Cebull, Mrs. Hattie A.*.	Sandusky, Ohio.....	Assistant observer, temporary appointment terminated.
Dietrich, Harry W.*....	Washington, D. C.....	Appointed clerk at \$1,000, temporarily, pending certification of eligibles.
Evans, Clarence W.....	Washington, D. C.....	Messenger boy, transferred to Bureau of Animal Industry.
Gutknecht, Carl G. J. 1..	Columbus, Ohio.....	Promoted to messenger at \$600 from messenger boy at \$480.
Hayes, Dallas B.....	Houston, Tex.....	Observer, resigned; record, excellent.
Hoffman, Joseph.....	Washington, D. C.....	Messenger boy, on furlough for military duty, resigned; record, excellent.
Hurley, John F.....	Buffalo, N. Y.....	Designation changed to printer from observer.
Jones, Ellsworth F. P...	Duluth, Minn.....	Messenger boy, resigned; record, fair.
Keller, Andrew P.....	Sandusky, Ohio.....	Assistant observer, restored to duty on October 16, 1919, from furlough without pay on account of naval duty.
Leshansky, Joseph.....	Birmingham, Ala.....	Observer, resigned; record, excellent.
McCarthy, Daniel J.....	Dayton, Ohio.....	Messenger boy, resigned; record, good.
McGann, Edward W....	Des Moines, Iowa.....	Observer, reduced at his request to \$600 from \$1,080; to serve four hours a day.
Marshall, Orville D.*....	Chicago, Ill.....	Assistant observer, resigned; record, excellent.
Murphy, John J.*.....	Eastport, Me.....	Restored to duty on October 16, 1919, and appointed assistant observer at \$1,080, temporarily, pending certification of eligibles.
Nichols, Archie P.*.....	Richmond, Va.....	Messenger boy, temporary appointment terminated.
Ostrom, Ralph A. A....	Jacksonville, Fla.....	Messenger, resigned; record, excellent.
Priester, Elijah.....	Columbia, S. C.....	Appointed messenger boy at \$480.
Ray, Charles F.*.....	Baltimore, Md.....	Assistant observer, resigned; record, excellent.
Rayner, William E.....	Galveston, Tex.....	Appointed apprentice at \$480.
Reichelt, Carl A.....	Honolulu, Hawaii.....	Appointed observer at \$1,260, by reinstatement.
Rice, Marcus A.....	Reno, Nev.....	Observer, restored to duty on October 16, 1919, from furlough without pay on account of military duty.

Appointments, promotions, reductions, etc.—Continued.

Names.	Stations.	Remarks.
Sencindiver, Miss Fannie E.*	Washington, D. C. ....	Appointed clerk at \$900, temporarily, pending certification of eligibles.
Simes, Edward F. ....	Groesbeck, Tex. ....	Assistant observer, resigned; record, excellent.
Simms, Robert F. ....	Cleveland, Ohio. ....	Printer, resigned; record, good.
Smith, Paul C. ....	Washington, D. C. ....	Promoted to messenger boy at \$600 from \$480.
Stickel, C. Elwood* ....	Dayton, Ohio. ....	Messenger boy, temporary appointment terminated.
Stielper, John L.* ....	Baltimore, Md. ....	Appointed assistant observer at \$540, temporarily, pending certification of eligibles; a like amount being paid by the Maryland State Weather Service.
Wettrich, William K. ...	Cleveland, Ohio. ....	Apprentice, resigned; record, excellent.
Wettrich, William K.* ..	Cleveland, Ohio. ....	Appointed printer at \$1,000, temporarily, pending certification of eligibles.
Armington, Emory T.* ..	Trenton, N. J. ....	} Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Duffloeg, Harold D.* ....	New York, N. Y. ....	
Milatzo, John F.* ....	Chicago, Ill. ....	
Towle, Amos* ....	Mobile, Ala. ....	
Cunningham, Leo I. ....	Philadelphia, Pa. ....	} Appointed messenger boy at \$480; temporary appointment terminated.
Danforth, Laurence H. ..	Concord, N. H. ....	
Gesford, John C. ....	Oklahoma, Okla. ....	
Henry, Ernest C. ....	Kansas City, Mo. ....	
Henry, Henderson ....	Washington, D. C. ....	
Preston, Joseph E. ....	Terre Haute, Ind. ....	
Adams, Robert H.* ....	Savannah, Ga. ....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Burke, Leonard J.* ....	Duluth, Minn. ....	
Sportsman, Orville B.* ..	North Platte, Nebr. ....	
Steinberg, Charles* ....	Jacksonville, Fla. ....	
Stickel, C. Elwood* ....	Dayton, Ohio. ....	

\* Indicates temporary appointment.

<sup>1</sup> Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Allen, Maxwell W . . . . .	Reno, Nev . . . . .	San Francisco, Calif., assist- ant.
Bastian, Albert J . . . . .	Yuma, Ariz . . . . .	Phoenix, Ariz., assistant.
Beacham, Cecil L . . . . .	Richmond, Va . . . . .	Broken Arrow, Okla., assist- ant.
Brunkow, William H . . . . .	Eastport, Me . . . . .	Hannibal, Mo., assistant, pending further orders.
Fletcher, Edgar H . . . . .	Phoenix, Ariz . . . . .	Yellowstone Park, Wyo., in charge.
Garrason, John S . . . . .	Charleston, S. C . . . . .	Pensacola, Fla., in charge.
Jarboe, James H . . . . .	Wagon Wheel Gap, Colo . . . . .	Milwaukee, Wis., assistant.
Jones, Harris A . . . . .	Honolulu, Hawaii . . . . .	Detroit, Mich., assistant.
Justice, Alonzo A . . . . .	Milwaukee, Wis . . . . .	Dodge City, Kans., in charge.
Lawton, George E . . . . .	Yellowstone Park, Wyo. . . . .	Philadelphia, Pa., assistant.
Warren, Leslie A . . . . .	Broken Arrow, Okla. . . . .	Groesbeck, Tex., assistant.

*E. H. Marvin.*

*Chief of Bureau.*

UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

NOVEMBER, 1919.

## APPROPRIATION ESTIMATES.

The estimates for the support of the Government for the fiscal year ending June 30, 1921, have been reported to Congress by the Secretary of the Treasury. The items of direct interest to Weather Bureau employees are contained in the estimates for the Department of Agriculture.

The total appropriation for the Weather Bureau for the current fiscal year is \$1,880,210. The estimates for the next fiscal year are \$2,228,150, an increase of \$347,940. All of this increase, with the exception of \$1,200 for an assistant engineer on the statutory roll, is for general expenses. The following summary shows the Weather Bureau appropriation for the current year and the estimates for the next year, new items in the latter being shown in italics:

Appropriations.	Fiscal year 1920 appropriations.	Estimates for fiscal year 1921.	Increase.
Statutory salaries.....	\$342, 890	\$349, 810	\$6, 420*
General expenses:			
In Washington.....	109, 250	116, 190	6, 940
Washington printing office.....	12, 800	15, 000	2, 200
Out of Washington:			
Salaries.....	672, 500	726, 800	54, 800
Observations and reports (sub-stations.)	129, 040	184, 540	5, 500
Telegraphy and telephony.....	295, 750	298, 750	8, 000
Miscellaneous expenditures.....	206, 940	213, 840	6, 400
Traveling expenses.....	26, 000	28, 200	2, 200
Aerological work.....	85, 040	281, 020	195, 980
<i>Forest fire warning.....</i>		15, 000	15, 000
<i>Marine meteorology.....</i>		50, 000	50, 000
	1, 810, 210	2, 228, 150	347, 940

\* \$5,220 of this amount cover employees now carried on miscellaneous rolls (general expenses), which appropriations were correspondingly reduced.

*Statutory salaries.*—The Secretary of the Treasury, in a letter transmitting the estimates of appropriations for the fiscal year ending June 30, 1921, made the following statement:

No increases in statutory salaries of employees in the various departments and other governmental establishments in Washington whose compensation is under consideration by the Joint Commission on Reclassification of Salaries are included in the estimates herewith presented; but it is requested that the appropriations for these salaries be adjusted in accordance with such recommendations of the Commission as may receive the approval of the Congress.

*In Washington expenses.*—The increase of \$6,940 is to cover the expenses in Washington incidental to the proposed extension of the vessel weather service and the transfer to the Weather Bureau of the supervision of the meteorological observations now being made by the Bureau of Plant Industry in connection with its dry-farming work in some of the Western States. The major part of the estimates for these projects is included in the "Out of Washington" subappropriation.

*Printing office in Washington.*—The increase of \$2,200 is to meet the great increase in cost of paper and printing materials of all kinds.

*Out of Washington expenses.*—There is a net increase of \$69,200, subdivided as shown in the table. This amount is intended (*a*) to meet the higher cost of maintaining the regular stations, for the restoration of work that was discontinued during the war and for the extension of the service; (*b*) for the extension of the vessel weather service, in order to secure a larger number of wireless reports during the hurricane season in the Atlantic, Gulf, and Caribbean Sea regions and also to inaugurate a similar service on the coastal waters of the Pacific Ocean westward of the United States; (*c*) for the enlargement of the fruit frost service and the dissemination of special localized forecasts, in order that orchardists may promptly apply protective measures; (*d*) for the inauguration of special 48 to 72 hour forecasts in connection with orchard spraying operations, to enable fruit growers to secure the best results by the application of sprays in advance of rainy spells; (*e*) for the extension of the cattle region service to Montana and to inaugurate a daily corn and wheat service in sections of the country where large quantities of these cereals are grown, but which the bureau has been unable to cover because of lack of funds; and (*f*) to provide for the upkeep of the instrumental equipment and for working over, tabulating, and disseminating meteorological data secured at the various field stations of the Bureau of Plant Industry located in the arid and semiarid sections of the country, especially in the Great Plains.

*Traveling expenses.*—The increase of \$2,200 is to provide for additional travel required in connection with the fruit frost and orchard spraying work, and supervision of observations taken in the dry-farming regions by the Bureau of Plant Industry.

*Aerological stations.*—"For the establishment and maintenance of additional aerological stations, for observing, measuring, and investigating atmospheric phenomena, and the issuing of weather forecasts,

advice, and warnings in the aid of military, naval, and civil aeronautics, and in the development of navigation of the air, including salaries, travel, and all other expenses in the city of Washington and elsewhere."

There is an apparent increase in this item of \$195,980, but taking into consideration transfers to the statutory roll aggregating \$4,020, the actual increase is \$200,000.

It is the purpose to materially develop and extend the aerological work of the bureau to meet the demand that exists for information for upper air conditions in the aid of aviators, artillerymen, and other naval and military operations. One of the most remarkable results of the war is the recognition that is now given to the importance of meteorological work and the essential part it must play during peace times in the growth and perfection of transportation through the air and in military operations in times of war. It is the purpose to establish additional stations and to make intensive study of the many problems involved, for the purpose, not only of informing aviators, both military and civil, of existing upper air conditions along the aeroplane routes, but to give them forecasts of weather conditions likely to be encountered and to advise them of the altitudes at which the best flying conditions are apt to be met.

*Forest fire warnings.*—"For the establishment and maintenance of special stations in national forests and elsewhere, the collection of reports and issuing of forecasts and warnings in connection with the protection of forests from fires, in cooperation with the Forest Service, State, and other organizations, including salaries, travel, and other expenses in the city of Washington and elsewhere."

This is a new item for which \$15,000 is estimated. The purpose is the making and disseminating by district forecasters of warnings of weather conditions favorable to the inception and spread of forest fires and of the approach of rains which affect their control after fires have started. The extensive and destructive forest fires that prevailed in the Northwestern States during the past summer emphasize the need for this kind of service. It is the intention to establish a number of reporting stations throughout the affected regions, make a comprehensive survey of these districts and to assign forecasters and other necessary officials to the work of studying the problem and making the forecasts.

*Marine meteorology.*—"For the extension of marine meteorological work, the collection of weather and water temperature reports at sea, the preparation of charts, the determining of fog zones, the distribution of marine meteorological information in the aid of navigation, and to carry out the provisions of the act of Congress approved June 17, 1910 (36 Stat. L., p. 508), for the collecting and furnishing of meteorological information to the Hydrographic Office of the Navy

Department for use in the preparation of pilot charts, including salaries, travel, and other expenses in the city of Washington and elsewhere."

This is a new item for which \$50,000 is estimated. For many years the Weather Bureau has been engaged in the collection of meteorological reports from vessels at sea, the principal object of which has been to supply data required for the Pilot Chart published by the Hydrographic Office of the Navy Department, as required by act of Congress. This work has been conducted with very little expense. It is expected that observations will be made under cooperative arrangements with captains of ships of all nationalities, as at present. No payment will be made for the observations other than furnishing marine information and meteorological publications and correcting barometers when the ships enter ports at which Weather Bureau stations are located. The placing of so many United States mercantile ships on the seas has created a greater demand than ever before for definite information pertaining to the surface meteorology of the ocean, making it necessary to further develop the existing service. It will be the purpose to determine meteorological conditions over the oceans as far as possible, especially over the great highways and lanes of marine travel, so that accurate information as to weather conditions may be made immediately available to mariners and shipping interests, and to issue forecasts and warnings as far as it may be possible to do so.

*Sale of Mount Weather.*—An item has been submitted to authorize the sale of the buildings and grounds at Mount Weather, Va. The property is not desired by any other Government agency. The buildings are deteriorating, and as the Weather Bureau is not likely to use them again it seems advisable to dispose of the premises by sale, for which authority of Congress is necessary.

It will be noted that these estimates carry amounts which will be available for salaries. It is hoped that as a result of the recommendations made by the Congressional Joint Commission on Reclassification of Salaries that the salaries of the Weather Bureau will be generally increased in accordance with whatever standards may be set by the recommendations of that Commission.

GENERAL LEGISLATION.

Other items in the estimates which affect the Department of Agriculture as a whole, and in which employees of the Weather Bureau are interested, are as follows:

*Actual traveling expenses.*—"Officers and employees of the Department of Agriculture during the fiscal year ending June 30, 1921, while traveling on official business away from their designated posts of duty, may be allowed not to exceed \$7 per day for subsistence, but in no case shall they be reimbursed any sum in excess of expenses actually incurred by them."

*Per diem traveling expenses.*—"The Secretary of Agriculture, during the fiscal year ending June 30, 1921, is authorized to prescribe per diem rates of allowance not exceeding \$6 in lieu of subsistence to officers or employees of the Department of Agriculture engaged in field work or traveling on official business outside of the District of Columbia away from their designated posts of duty."

*Leave of absence for field employees.*—"The employees of the Department of Agriculture outside of the District of Columbia may hereafter, in the discretion of the Secretary of Agriculture, be granted leave of absence not to exceed 30 days in any one year, which leave may, in exceptional and meritorious cases, where such employee is ill, be extended, in the discretion of the Secretary of Agriculture, not to exceed 30 days additional in any one year."

*Accumulated leave outside the United States.*—"Hereafter, if any employee of the Department of Agriculture assigned to permanent duty in Alaska, Hawaii, Porto Rico, Guam, and the Virgin Islands shall elect to postpone taking any or all of the annual leave to which he may be entitled, he may, in the discretion of the Secretary of Agriculture, subject to the interests of the public service, be allowed to take at one time in any calendar year unused annual leave which may have accumulated within not to exceed four calendar years immediately preceding and be paid at the rates prevailing during the year such leave has accumulated."

The Agricultural Committee of the House of Representatives began hearings on the estimates on December 9, 1919. It is hoped that the estimates as submitted will be favorably acted on by Congress.

**RESPONSIBILITY FOR TRANSPORTATION REQUESTS.**

Paragraph 89 of the Fiscal Regulations has been amended by the addition of the following provisions:

Administrative officers of bureaus charged with the custody of transportation requests shall require a receipt when furnishing such requests for the use of persons authorized to travel upon the business of the department over the lines of any transportation company. Each officer or employee shall be charged with the requests received by him or placed in his custody, shall safeguard them the same as cash, account for them in accordance with these regulations, and be held responsible for the loss thereof and chargeable with the amount which may be required to be paid by the United States because of any improper use of the same.

Printed receipts hereafter will accompany all transportation requests that are issued. These receipts should be signed promptly and returned to the Central Office in accordance with the directions printed thereon.

**CHECKS INCORRECTLY DRAWN.**

In preparing the large number of checks required in the settlement of accounts and station payrolls, errors sometimes occur in the initials

or in the spelling of the name of the payee. Such checks should not be returned for correction. The payee should indorse the check *as drawn* and write his correct signature immediately underneath. The check is then in proper shape to be cashed and handled by banks in the usual manner. A check drawn for an *erroneous amount* must be returned promptly for correction.

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**RECENT DECISIONS OF THE COMPTROLLER.**

**RESTORATION OF CIVILIAN POSITION AFTER DISCHARGE FROM MILITARY SERVICE.**

Under the act of February 25, 1919 (40 Stat., 1164), a civilian employee who has been drafted or enlisted in the military service during the War with Germany is entitled upon honorable discharge to reinstatement in his former position, notwithstanding the fact of his having accepted temporary employment elsewhere in the interval between the date of discharge and of application for reinstatement.

**EMPLOYMENT UNDER LUMP-SUM APPROPRIATIONS.**

Where civilian employees are transferred at an increased compensation to statutory positions and said positions are subsequently and within a year from the date of transfer placed on a lump-sum roll as a result of congressional action, payment of the increased compensation is not within the restriction of the acts relating to increase of compensation under lump-sum appropriations.

**EMPLOYMENT UNDER LUMP-SUM APPROPRIATIONS.**

The reinstatement of an employee in his former position, payable from a lump-sum fund, at the rate of compensation theretofore received, is prohibited by section 7 of the act of October 6, 1917 (40 Stat., 888), where there has been intermediate employment in another Government department or establishment at a less rate of pay.

**TRAVELING EXPENSES COVERING PORTIONS OF TWO FISCAL YEARS.**

Where official travel commenced prior to the expiration of a fiscal year was properly chargeable to appropriations for that year, the expense of the return journey performed after the conclusion of such fiscal year is properly chargeable to the appropriation under which the commencement of the journey was authorized.

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**RIVER GAGE READINGS IN COLD WEATHER.**

In the rivers of the United States below the thirty-seventh parallel practically open water prevails throughout the year, except in extremely cold winters, when shore ice may form and continue for a few days. Streams in the northern part of the country freeze over sometimes as early as December and continue frozen throughout the winter. Ordinarily, gagings of these rivers are not required in the winter season, but in the last few years the suggestion has been made that the river observers in the northern part of the country keep the ice broken in the vicinity of the gage. It is obvious that this suggestion can not be taken too literally in all cases, especially for those streams on which ice forms to a thickness of 10 to 20 inches.

An examination of the readings submitted for winter months indicates that in some cases the observer uses the ice surface as the stage of the river and reports substantially the same stage throughout the winter; other cases show a fluctuation of the ice surface from day to

day generally small, although a change of as much as a foot has been recorded. The natural fluctuations in stream-flow under the ice must be small so long as low temperatures prevail, but on small streams it is conceivable that the surface of the ice may change from day to day as the stream itself rises or falls.

It would be more desirable from the Central Office viewpoint if river observers, instead of reporting the elevation of the surface of the ice, would give the average thickness of ice and the distance from the bottom of ice to surface of water for that portion of the river near the gage. Such information two or three times a week would be sufficient, except when there is liability of a break-up. As soon as the ice goes out, regular daily observations should be resumed.

The above is submitted for the purpose of getting discussion upon the value of the present system of ice readings in cold weather and the advisability of making a change whereby the thickness of ice each winter would become a matter of record.

RECORD OF ICE CONDITIONS.

About 70 stations located on rivers or harbors report ice conditions weekly, on Mondays, for use in the preparation of the Snow and Ice Bulletin.

Unlike the depth of snow, the ice thickness has no designated place for entry in Form No. 1001, but a few stations enter the weekly conditions as to ice, on page 12, among the monthly meteorological notes. As these records are likely to be useful for future reference, especially for comparison of one winter with another, it is suggested that all stations on rivers or harbors make such weekly entries on page 12, and in addition on Form No. 1014, during the period ice is liable to form.

CHANGE IN OBSERVATION TIME.

Nineteen stations failed to change the hour in caption "Observations taken at 7:00 a. m., 75th meridian time" on maps and bulletins when the change in time became effective on October 26. The errors continued for a considerable time, in most cases an entire month, notwithstanding the fact that ample notice of the change of time was given by an item in TOPICS AND PERSONNEL and by printed instructions.

LISTING IN TELEPHONE DIRECTORIES.

A review of the replies to the request, in TOPICS AND PERSONNEL for October, 1919, for opinions of local officials as to the best method of listing local Weather Bureau offices in local telephone directories, shows a preponderance of opinion in favor of listing under U (United States Weather Bureau). However, it is desired to allow officials all the latitude possible in this matter, in order that local custom and previous practise may be considered. Therefore, local officials will use

their own judgment as to how local offices will be listed, but unless there are good reasons to the contrary, it is preferred that they be listed under U; or, in places where a section of the directory is reserved for all Government offices, both under U and in the separate section, if the double listing can be obtained without additional expense to the Government. Under no circumstances will an official telephone be listed under the name of any individual.

Paragraph 210 of Station Regulations will be amended to conform to the foregoing.

#### HIGHWAY WEATHER SERVICE.

Since the issue of the circular of August 27, 1919, highway weather service has been authorized at the following stations: Atlanta, Ga.; Boston, Mass.; Burlington, Vt.; Charleston, S. C.; Charles City, Iowa; Chicago, Ill.; Cincinnati, Ohio; Columbia, S. C.; Dallas, Tex.; Denver, Colo.; Duluth, Minn.; El Paso, Tex.; Fort Smith, Ark.; Fort Wayne, Ind.; Fort Worth, Tex.; Grand Junction, Colo.; Helena, Mont.; Houston, Tex.; Indianapolis, Ind.; Louisville, Ky.; Peoria, Ill.; Philadelphia, Pa.; Phoenix, Ariz.; Saginaw, Mich., Toledo, Ohio; Wichita, Kans.

#### LARGE INDEX MINIMUM THERMOMETERS.

With a view to retaining the valuable services of cooperative observers who may otherwise be inclined to give up the work because of failing eyesight, action is being taken to procure a limited number of minimum thermometers having a large index that may be easily read. This, however, will make it necessary to sacrifice certain desirable features, such as smallness of bulb and openness of scale. It is hoped that a few of these thermometers will be ready for distribution within three or four months.

#### REMINDERS.

*Cold wave warnings and local forecasts.*—It is noted that cold wave and other warnings included in the State forecasts are omitted in some instances from the local forecasts. Paragraph 513, Station Regulations, is considered to require inclusion of the special warnings in the local forecast.

Semiannual forms showing record of operator service at certain stations having telegraphic loops are due January 1. Accounts for such can not be audited until the forms are received.

#### CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of November, 1919, is published for the *exclusive* information of employees of the Weather Bureau:

Appointments, promotions, reductions, etc.

Names.	Stations.	Remarks.
Alt, Howard W. ....	St. Louis, Mo. ....	Messenger boy, resigned; record, excellent.
Alt, Howard W.* ....	St. Louis, Mo. ....	Appointed printer at \$1,000, temporarily, pending certification of eligibles.
Alward, Edward E. ....	Parkersburg, W. Va. ...	Assistant observer, on furlough for military duty, resigned; record, good.
Andrykoski, Joseph P. .	Saginaw, Mich. ....	Messenger boy, on furlough for naval duty, resigned; record, excellent.
Baker, Miss Lucille* . . .	Washington, D. C. ....	Clerk, resigned; record, good.
Bastian, Albert J.* . . . .	Phoenix, Ariz. ....	Assistant observer, resigned; record, excellent.
Berman, Hyman* . . . . .	Washington, D. C. ....	Appointed clerk (draftsman) at \$1,000, temporarily, pending certification of eligibles.
Blake, August J. <sup>1</sup> . . . . .	New Orleans, La. ....	Promoted to messenger at \$600 from \$480.
Brant, Irvin E.* . . . . .	Ludington, Mich. ....	Messenger boy, resigned; record, good.
Burke, Thomas, jr. ....	Madison, Wis. ....	Assistant observer, on furlough for military duty, resigned; record, good.
Burnett, Vernon O. H. . .	Houston, Tex. ....	Messenger boy, resigned; record, fair.
Buroker, Donald J. ....	Madison, Wis. ....	Assistant observer, on furlough for military duty, resigned; record, good.
Byrd, Bryan* . . . . .	Cape Henry, Va. ....	Repairman, resigned; record, good.
Cooper, Harold H. ....	Washington, D. C. ....	Promoted to observer at \$1,260 from clerk at \$1,200.
Coover, Miss Minerva C. .	Washington, D. C. ....	Appointed clerk at \$1,000.
Craven, James R. ....	Juneau, Alaska. ....	Observer, on furlough for military duty, resigned; record, excellent.
Dague, Charles I. ....	Dallas, Tex. ....	Observer, resigned; record, excellent.
Dietrich, Ernst A.* . . . .	Lincoln, Nebr. ....	Appointed printer at \$1,000, temporarily, pending certification of eligibles.
Dietrich, Harry W. ....	Washington, D. C. ....	Appointed clerk at \$1,000; temporary appointment terminated.
Drechsler, Victor J. ....	New York, N. Y. ....	Promoted to apprentice at \$600 from messenger boy at \$480.
Elizardi, Lawrence P. . . .	New Orleans, La. ....	Appointed assistant observer at \$1,080; temporary appointment at \$900 terminated.
George, Clarence O. <sup>1</sup> . . . .	Saginaw, Mich. ....	Promoted to messenger boy at \$600 from \$480.
Gilmore, William H.* . . .	Dallas, Tex. ....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Goldsmith, Samuel M. <sup>1</sup> . .	Memphis, Tenn. ....	Promoted to messenger at \$600 from messenger boy at \$480.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Gordon, Russell V.*....	Norfolk, Va.....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Hathaway, C. Elwyn*....	Lansing, Mich.....	Messenger boy, resigned; record, good.
Heming, Thomas D.*....	Detroit, Mich.....	Assistant observer, resigned; record, good.
Hyre, Harley E.....	Wausau, Wis.....	Observer, resigned; record, excellent.
Kennedy, Miss Helen W.	Washington, D. C.....	Appointed clerk at \$1,000; temporary appointment terminated.
Kistler, Merle D.....	Washington, D. C.....	Clerk, on furlough for military duty, resigned; record, excellent.
Lee, William E.....	Sandy Hook, N. Y.....	Appointed messenger boy at \$480; temporary appointment terminated.
Long, Hoyt.....	Washington, D. C.....	Clerk (telegraph operator), on furlough for military duty, resigned; had served only a few days when furloughed for military duty.
McCabe, Edward G.*....	Dallas, Tex.....	Apprentice, resigned; record, good.
McMullen, Miss Edith V.*	Washington, D. C.....	Clerk, resigned; record, good.
Nation, Ira J.*.....	Birmingham, Ala.....	Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Nelson, Thomas J.....	Washington, D. C.....	Promoted to clerk at \$1,000 from \$900.
Parks, Charles L.....	New York, N. Y.....	Apprentice, resigned; record, excellent.
Patterson, Mrs. Katie B.*	Washington, D. C.....	Clerk, resigned; record, good.
Patton, William W.....	St. Louis, Mo.....	Appointed messenger boy at \$480; temporary appointment terminated.
Rausch, Arthur A.....	St. Louis, Mo.....	Observer, resigned; record, excellent.
Rhea, William E.....	Fort Smith, Ark.....	Observer, on furlough for military duty, resigned; record, excellent.
Roe, Elmer L.....	Toledo, Ohio.....	Messenger boy, resigned; record, good.
Rountree, Joseph O.*....	Groesbeck, Tex.....	Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Sandridge, Norman.....	Washington, D. C.....	Compositor, resigned; record, excellent.
Sands, George O.*.....	Tatoosh Island, Wash..	Appointed repairman at \$840, temporarily, pending certification of eligibles.
Satterthwaite, Miss Evalena.*	Washington, D. C.....	Clerk, resigned; record, good.
Searight, Mrs. Sophie L.*	Washington, D. C.....	Clerk, resigned; record, good.
Sencindiver, Miss Fannie E.*	Washington, D. C.....	Clerk, resigned; record, good.
Serodino, Norbert R....	San Diego, Calif.....	Messenger, resigned; record, good.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Seu, Allen G. Akim....	Kilauea, Hawaii.....	Appointed mechanic at \$1,000; temporary appointment terminated.
Simes, Edward F.....	Wausau, Wis.....	Appointed observer at \$1,260 by reinstatement.
Teal, Raymond M.....	Los Angeles, Calif....	Messenger, resigned; record, excellent.
Thickstun, William R..	Washington, D. C.....	Promoted to clerk (draftsman) at \$1,200 from \$1,000.
Wadley, Miss Anna....	Washington, D. C.....	Appointed clerk at \$900.
Wilder, Miss Marie B...	Washington, D. C.....	Appointed clerk at \$900.
Farrell, Edward A., jr.*	Houston, Tex.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Gillen, Frederick J.*...	San Diego, Calif.....	
Hamilton, Marlowe M.*	Toledo, Ohio.....	
Kirst, John L.*.....	Dayton, Ohio.....	
Larsen, Gorwan W.*....	Ludington, Mich.....	
Messenger, Nathan*....	Los Angeles, Calif.....	
Pettus, Stephen W.*....	Mobile, Ala.....	
Seeley, D. Maxwell*....	Lansing, Mich.....	

\* Indicates temporary appointment.

<sup>1</sup>Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Bemis, Charles N.....	New York, N. Y.....	Burlington, Vt., assistant.
Brightenburg, Allen C..	Lincoln, Nebr.....	Washington, D. C., compositor.
Callen, Arthur H. C....	Denver, Colo.....	Dallas, Tex., assistant.
Cooper, Harold H.....	Washington, D. C.....	Madison, Wis., assistant.
Fitzgerald, Richard J..	Dallas, Tex.....	Houston, Tex., assistant.
McGann, Edward W....	Des Moines, Iowa.....	Norfolk, Va., assistant.
Maughan, William E...	Ellendale, N. Dak.....	Des Moines, Iowa, assistant.
Parker, Harold P.....	Madison, Wis.....	San Juan, P. R., assistant.
Weitz, Bernard O.....	San Juan, P. R.....	Washington, D. C., assistant observer.
Wells, Roy A.....	Washington, D. C.....	Denver, Colo., assistant.
Woolard, Edgar W.....	Norfolk, Va.....	Washington, D. C., assistant observer.

*C. H. Marvin.*  
Chief of Bureau.

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UNITED STATES DEPARTMENT OF AGRICULTURE.

# WEATHER BUREAU TOPICS AND PERSONNEL

DECEMBER, 1919.

## BASIC LAWS UNDER WHICH THE WORK OF THE WEATHER BUREAU IS CONDUCTED.

Correspondence received from time to time indicates that many of the officials and employees of the Weather Bureau are not familiar with the basic laws and orders under which the work of the Weather Bureau is conducted. Therefore, the following is published for information and ready reference:

### ORGANIC ACT.

From February 9, 1870, to July 1, 1891, the official meteorological work in the United States was conducted by the Signal Corps of the U. S. Army, under several acts of Congress which authorized the taking of observations, the issuing of forecasts and warnings, the maintenance of telegraph lines in isolated regions, etc. These duties were transferred from the Signal Corps by the organic act creating the Weather Bureau and placed in the Department of Agriculture, effective with July 1, 1891. (Act October 1, 1890, 26 Stat., 653).

AN ACT to increase the efficiency and reduce the expenses of the Signal Corps of the Army, and to transfer the Weather Service to the Department of Agriculture.

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That the civilian duties now performed by the Signal Corps of the Army shall hereafter devolve upon a bureau to be known as the Weather Bureau, which, on and after July first, eighteen hundred and ninety-one, shall be established in and attached to the Department of Agriculture, and the Signal Corps of the Army shall remain a part of the Military Establishment under the direction of the Secretary of War, and all estimates for its support shall be included with other estimates for the support of the Military Establishment.

SEC. 2. (This section defines the duties of the Chief Signal Officer, and has no relevancy to the Weather Bureau.)

SEC. 3. That the Chief of the Weather Bureau, under the direction of the Secretary of Agriculture, on and after July first, eighteen hundred and ninety-one, shall have charge of the forecasting of weather, the issue of storm warnings, the display of weather and flood signals for the benefit of agriculture, commerce, and navigation, the gauging and reporting of rivers, the maintenance and operation of sea-coast telegraph lines and the collection and transmission of marine intelli-

gence for the benefit of commerce and navigation, the reporting of temperature and rainfall conditions for the cotton interests, the display of frost and cold-wave signals, the distribution of meteorological information in the interests of agriculture and commerce, and the taking of such meteorological observations as may be necessary to establish and record the climatic conditions of the United States, or as are essential for the proper execution of the foregoing duties.

SEC. 4. That the Weather Bureau shall hereafter consist of one Chief of Weather Bureau and such civilian employees as Congress may annually provide for and as may be necessary to properly perform the duties devolving on said bureau by law, and the chief of said bureau shall receive an annual compensation of four thousand five hundred dollars, and be appointed by the President, by and with the advice and consent of the Senate: *Provided*, That the Chief Signal Officer of the Army may, in the discretion of the President, be detailed to take charge of said bureau, and in like manner other officers of the Army, not exceeding four, expert in the duties of the weather service may be assigned to duty with the Weather Bureau, and while so serving shall receive the pay and allowances to which they are entitled by law.

NOTE.—That part of section 4 permitting the detail of officers for duty in the Weather Bureau was repealed by Joint Resolution of Congress (No. 57), July 8, 1898.

LANGUAGE IN APPROPRIATION ACT FOR THE FISCAL YEAR ENDING JUNE 30, 1920.

**GENERAL EXPENSES, WEATHER BUREAU:** For carrying into effect in the District of Columbia and elsewhere in the United States, in the West Indies, in the Panama Canal, the Caribbean Sea, and on adjacent coasts, in the Hawaiian Islands, in Bermuda, and in Alaska, the provisions of an act approved Oct. 1, 1890, so far as they relate to the weather service transferred thereby to the Department of Agriculture, for the employment of professors of meteorology, district forecasters, local forecasters, meteorologists, section directors, observers, apprentices, operators, skilled mechanics, instrument makers, foremen, assistant foremen, proof readers, compositors, pressmen, lithographers, folders and feeders, repairmen, station agents, messengers, messenger boys, laborers, special observers, displaymen, and other necessary employees; for fuel, gas, electricity, freight and express charges, furniture, stationery, ice, dry goods, twine, mats, oil, paints, glass, lumber, hardware, and washing towels; for advertising; for purchase, subsistence, and care of horses and vehicles, the purchase and repair of harness, for official purposes only; for instruments, shelters, apparatus, storm-warning towers and repairs thereto; for rent of offices; for repairs and improvements to existing buildings and care and preservation of grounds, including the construction of necessary outbuildings and sidewalks on public streets abutting Weather Bureau grounds; and the erection of temporary buildings for living quarters of observers; for official traveling expenses; for telephone rentals, and for telegraphing, telephoning, and cabling reports and messages, rates to be fixed by the Secretary of Agriculture by agreements with the companies performing the service; for the maintenance and repair of Weather Bureau telegraph, telephone, and cable lines; and for every other expenditure required for the establishment, equipment, and maintenance of meteorological offices and stations, and for the issuing of weather forecasts and warnings

of storms, cold waves, frosts, and heavy snows, the gauging and measuring of the flow of rivers and the issuing of river forecasts and warnings; for observations and reports relating to crops and for other necessary observations and reports, including cooperation with other bureaus of the Government and societies and institutions of learning for the dissemination of meteorological information, as follows:

For necessary expenses in the city of Washington incident to collecting and disseminating meteorological, climatological, and marine information, and for investigations in meteorology, climatology, seismology, volcanology, evaporation, and aerology.

For the maintenance of a printing office in the city of Washington \* \* \*

For necessary expenses outside of the city of Washington incident to collecting and disseminating meteorological, climatological, and marine information, and for investigations in meteorology, climatology, seismology, volcanology, evaporation, and aerology.

For official traveling expenses.

For the establishment and maintenance by the Weather Bureau of additional aerological stations, for observing, measuring, and investigating atmospheric phenomena in the aid of aeronautics, including salaries, travel, and other expenses in the city of Washington and elsewhere.\*

(\* NOTE.—This appropriation was included in the act making appropriations for the support of the Army for the fiscal year ended June 30, 1918. It was made necessary by the urgent need for additional aerological information, especially for military operations in the war then in progress. It was inserted in the Army bill instead of the Agricultural bill, because the latter had been passed by Congress while the former had not. The language contained in the Army bill is the same as the foregoing, except for an added provision which read: "To be expended under the direction of the Secretary of Agriculture." This provision was inserted to indicate the intention of Congress that the appropriation should be entirely under the control of the Secretary of Agriculture and expended by the Weather Bureau, which was done. The item was transferred to the Agricultural bill the ensuing fiscal year.)

#### METEOROLOGICAL DATA FOR PILOT CHARTS.

And hereafter the pilot charts prepared in the Hydrographic Office shall have conspicuously printed thereon the following: "Prepared from data furnished by the Hydrographic Office of the Navy Department and by the Weather Bureau of the Department of Agriculture, and published at the Hydrographic Office under the authority of the Secretary of the Navy"; and all meteorological information received by the Weather Bureau of the Department of Agriculture necessary for and of the character of such information heretofore used in the preparation of the pilot charts shall continue to be furnished with all possible expedition to the Hydrographic Office for use in preparation of said charts; \* \* \* (Act June 17, 1910, c. 297, 36 Stat., 508).

#### PRESIDENTIAL ORDER.

Under date of June 24, 1904, the President of the United States appointed an interdepartmental board to consider the entire question of wireless telegraphy in the service of the National Government. The members of this board were: R. D. Evans, Rear Admiral, United States Navy, representing the Department of Commerce and Labor; H. N. Manney, Rear Admiral, United States Navy, representing the Navy Department; A. W. Greely, Brigadier General, United States

Army, representing the War Department; Willis L. Moore, Chief U. S. Weather Bureau, representing the Department of Agriculture; and Joseph L. Jayne, Lieutenant Commander, United States Navy, representing the Navy Department.

The board submitted a unanimous report, under date of July 12, 1904, which contained certain definite recommendations relating to the subject of wireless telegraphy and other matters pertaining to the departments in interest. The President approved the report July 29, 1904, and directed "that the several departments concerned put its recommendations into effect". This order is still in force and effect. The recommendations that concern the Weather Bureau in its work and the meteorological activities of other departments represented on the board are as follows:

That the necessary steps be taken to have the Weather Bureau of the Department of Agriculture turn over to the Navy Department all coastwise wireless telegraph apparatus now under its control, and such material as it may have in its possession which can be utilized by the Bureau of Equipment of the Navy Department, and that proper transfers of funds for this purpose be made;

That the Weather Bureau of the Department of Agriculture furnish to the Hydrographic Office of the Navy, and to the naval wireless telegraph stations, or to other portions of the public service, such meteorological data as it or they may desire at no cost to them;

That the Department of Agriculture shall continue the work of its meteorological vessel-reporting and storm-warning stations, as now constituted and provided for by law, and continue the control of sea-coast telegraph systems, except wireless systems;

That all meteorological reports from vessels of war or commerce or other sailing craft, now being forwarded direct to the Hydrographic Office of the Navy, shall be forwarded direct to the Weather Bureau, and the control of ocean meteorology be transferred to the Department of Agriculture, which already has ample law for doing this work;

That the estimates for the support of the Hydrographic Office of the Navy, or any other office of the Navy, for the next and succeeding fiscal years, do not contain any provision for the making of ocean forecasts, or for the publication of meteorological data, other than such as may be needed by the hydrographer of the Navy for use on the pilot and other charts, which data shall be furnished by and credited to the Weather Bureau;

That it is the opinion of this board that no meteorological work need or should be done by any portion of the Navy for the purpose of publication, or for the making of forecasts or storm warnings; that all such duties, being purely civil, should devolve upon the Weather Bureau of the Department of Agriculture in accordance with the organic act creating that bureau;

That the wireless stations of the Navy Department shall, without charge to the Agricultural Department, receive and promptly transmit to the ocean or to islands, or to other places where the information can be made useful, the storm warnings of the Weather Bureau;

That the Navy Department shall request all vessels having the use of its wireless stations for the receipt of messages, to take daily me-

teorological observations of the weather when within communicating range and to transmit such observations to the Weather Bureau, through naval wireless stations, at least once daily, and transmit observations oftener when there is a marked change in the barometer, and that there shall be no charge against the Agricultural Department for these observations, or for the transmission thereof.

**SALARY PAYMENT TO EMPLOYEES WHO ARE MEMBERS OF NATIONAL GUARD.**

A number of employees of the Department of Agriculture, who were members of the National Guard of various States, were called out for duty during the recent coal strike. A question arose as to whether such employees were entitled to pay from the department during the period of such duty, which was submitted to the solicitor of the department for an opinion.

In his opinion, the solicitor quoted that portion of the National Defense Act, approved June 3, 1916, which refers to leave of absence to members of the National Guard (see pages 3 and 4 of the October, 1916, issue of *TOPICS AND PERSONNEL*) and said:

Military duty incident to strikes and the like is not field or coast-defense "training", but is a species of "active duty" as distinguished from "training". Consequently the provision quoted is not applicable to cases of the character here under consideration.

Employees thus engaged might, however, be granted annual leave with pay within the statutory limit, i. e., thirty days in Washington and fifteen days in the field.

Nor does the prohibition contained in the Act of August 29, 1916, upon the payment of more than one salary when the combined amount exceeds the rate of \$2,000 per annum, apply to such employees, members of the organized militia being specifically exempted therefrom by the terms of the act.

Accordingly it is my opinion, and I do so advise you, that members of the National Guard on strike or similar duty may be granted leave with pay only to the extent of the annual leave to which they may be eligible. Absence in excess of such leave would of necessity have to be covered by leave without pay.

**RESTORATION OF FURLOUGHED EMPLOYEE.**

The following employee of the Weather Bureau who was furloughed on account of military service has been restored to duty and assigned to the station indicated:

Hovde, Hjalmar B. .... Palestine, Tex.

**RELINQUISHMENT OF OFFICE SPACE IN PUBLIC BUILDINGS.**

Cases have occurred where the local custodian of Federal buildings in which the Weather Bureau offices are located, acting under instructions from the Treasury Department in Washington, have demanded and assigned office rooms and space used by the Weather Bureau to other branches of the Government service without the knowledge and consent of the Central Office.

If future cases of this character should arise, the official in charge should inform the custodian that he is without authority to relinquish any space until authority has been secured from the Chief of the Weather Bureau. An immediate report should be made of the full facts and circumstances and the effect that the proposed change will have upon the work of the bureau, accompanied by a diagram showing the space occupied and the space it is the purpose to take away. Each case will be carefully considered on its merits. If the Chief of Bureau decides that relinquishment of space will be to the serious detriment of the Weather Bureau he will make immediate protest through official channels.

INDEX AND COVERS FOR TOPICS AND PERSONNEL.

A subject index for TOPICS AND PERSONNEL from July, 1915, to December, 1919, inclusive, has been prepared and will be issued at an early date. To simplify the index, the pages of Central Office file copies have been renumbered. Consequently it will be necessary for stations to number correspondingly the pages of station copies for the whole period covered. As usual in paging a volume, sheets that are blank on both sides have been omitted, and sheets blank on one side paged on both the printed and the blank side. All odd numbers appear on right-hand pages and all even numbers on left-hand pages. To make sure that station paging agrees with that on which the index is based, the following table shows the number of the first page of each monthly issue:

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1915.....							1	9	17	25	33	41
1916.....	49	57	65	73	81	89	97	105	113	121	129	137
1917.....	151	159	167	175	181	189	199	209	221	233	245	255
1918.....	267	275	289	301	317	327	335	345	353	365	377	387
1919.....	393	399	409	417	429	437	445	455	463	475	487	499

Covers, similar to those issued for instructions and circulars, will be furnished as soon as practicable for binding the issues to which the index applies. As the volume will be too thick for staples or brass fasteners, it is suggested that four holes be punched through the fifty-four issues and they be tied together with strong cord or tape.

Beginning January, 1920, the numbers printed on the pages will be consecutive for the entire period that will be included in the next index and volume.

Station officials are requested to have the paging done as promptly as possible after the receipt of the index.

PROPOSED CHANGE IN STYLE OF CORRESPONDENCE.

UNITED STATES DEPARTMENT OF AGRICULTURE  
WEATHER BUREAU  
WASHINGTON

January 15, 1920.

Official in Charge,  
Weather Bureau Office,

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Sir:

The Central Office has under consideration the issuing of instructions modifying regulations pertaining to the preparation of correspondence.

The present regulations require double space typewriting for letters, etc., and single space for quotations and long endorsements. The proposed plan is to single space all correspondence with a double space between paragraphs. The first line of each paragraph should be indented five spaces. Addresses will be single space, the first line beginning at the margin and each additional line indented five spaces from the preceding line. Quotations will be indented five spaces from each margin, except the first quoted line, which will be indented ten spaces from the left-hand margin as follows:

Strength consists in giving to the several words and members of a sentence such an arrangement as shall bring out the sense to the best advantage and present every idea in its due importance. A concise style is the most favorable to strength.

The object to be gained is paragraph construction somewhat similar to that used in military correspondence, which gives the reader a more concrete impression of the subject-matter and allows for a more definite paragraph reference. Moreover, it is believed that a material aid in filing, economy in the use of paper, and attractiveness in appearance will be accomplished. Many letters that require two sheets when written in double space form will need only one sheet when single spaced.

An important and often neglected consideration in the preparation of correspondence lies in paragraphing. The proposed plan will emphasize the need for care in this respect. Only one subject should be treated in a letter, although it is realized that in many instances interrelated subjects must be included for a complete understanding of the major subject.

The need for confining a communication to a single subject as far as possible can be appreciated by recalling that there are twenty divisions or sections in the Central Office organization that have a direct relationship to station activities. Letters, when received, are routed to the divisions that are concerned with their subject-matter. It naturally follows that a communication that treats of several subjects may have a correspondingly extended routing, and that greater time will be required for action.

The necessity for adhering to the single-subject rule is not so urgent in correspondence between stations and from the Central Office to stations because such letters are, as a rule, acted on by the official in charge, but the principle is fundamental to such an extent as to justify general application.

It is difficult to establish or make rules for paragraphing, but each distinct phase of a subject should be in a separate paragraph. However, employees charged with correspondence should have no trouble in adjusting themselves to the plan.

The Central Office would be pleased to receive the views of station officials on the proposed modification, which will be given careful consideration before action is taken. If desired, a suggested form of letter may be submitted.

Respectfully,

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Title, -----

The foregoing is printed in letter form, instead of the style usual to TOPICS AND PERSONNEL items, in order to convey a correct impression of the proposed modification.

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**CHANGES IN PERSONNEL.**  
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The following, relative to changes in the personnel of the Weather Bureau during the month of December, 1919, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Alexander, Henry C.*..	Charlotte, N. C.....	Assistant observer, resigned; record, excellent.
Audigier, Miss Louie E.	Washington, D. C.....	Clerk, temporary promotion announced in list of changes for June, 1919, made permanent.
Ball, Homer W.....	Royal Center, Ind.....	Meteorologist, resigned; record, excellent.
Beacham, Cecil L.....	Broken Arrow, Okla...	Assistant observer, granted leave of absence without pay from January 1 to March 31, 1920.
Bennett, Richard L.*...	Little Rock, Ark.....	Assistant observer, resigned; record, good.
Burns, Charles T.....	Washington, D. C.....	Promoted temporarily to Chief of Printing Division at \$2,500 from clerk (printing expert) at \$1,800.
Colborn, Miss Martha J.	Washington, D. C.....	Appointed clerk at \$900.
Dalton, Robert D.....	St. Louis, Mo.....	Meteorologist-Junior Engineer, on furlough for military duty, resigned; record, excellent.
Davis, Mrs. Katharine..	Washington, D. C.....	Clerk, temporary promotion announced in list of changes for September, 1919, made permanent.
Drennan, Robert F.*...	Phoenix, Ariz.....	Assistant observer, resigned; served but a short time.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Dwight, Leo*.....	Amarillo, Tex.....	Assistant observer, resigned; record, excellent.
Franklin, Ebert L.....	Washington, D. C.....	Appointed clerk at \$1,000, by reinstatement.
Gallagher, John L.....	Washington, D. C.....	Appointed fireman at \$720; temporary appointment terminated.
Gallenne, Jean H.....	Washington, D. C.....	Clerk, temporary promotion announced in list of changes for June, 1918, made permanent.
Gardiner, I. Gwynn.....	Washington, D. C.....	Clerk, temporary promotion announced in list of changes for June, 1918, made permanent.
Gordon, Russell V.*...	Norfolk, Va.....	Apprentice, resigned; record, fair.
Gosewisch, Frederic Z..	Keokuk, Iowa.....	Observer, reduced at his request to \$840 from \$1,260; to serve four hours a day.
Graffius, Miss Alice J...	Washington, D. C.....	Appointed clerk at \$900.
Hazen, Miss Grace*....	Canton, N. Y.....	Messenger, resigned; record, good.
Herndon, Mrs. Moselle C.	Washington, D. C.....	Promoted temporarily to clerk at \$1,400 from \$1,200.
Hines, Raymond D.*...	Cape Henry, Va.....	Appointed repairman at \$720, temporarily, pending certification of eligibles.
Hodges, Lawrence M.*..	Portland, Oreg.....	Assistant observer, resigned; record, fair.
Hossler, William H.....	Palestine, Tex.....	Observer, resigned; record, excellent.
Houle, Miss Phoebe....	Washington, D. C.....	Clerk, temporary promotion announced in list of changes for September, 1918, made permanent.
Hovde, Hjalmar B.....	Palestine, Tex.....	Restored to duty on December 28, 1919, from furlough without pay on account of military duty, and promoted to observer at \$1,260 from assistant observer at \$1,080.
Kennedy, Miss Helen W.	Washington, D. C.....	Clerk, resigned; record, good.
Kibler, James H.....	Washington, D. C.....	Promoted to captain of the watch at \$1,000 from fireman and steamfitter at \$840.
Klumpp, Harold A.*...	Chicago, Ill.....	Assistant observer, resigned; record, excellent.
LeFors, Miss Clarice M..	Cheyenne, Wyo.....	Messenger, resigned; record, good.
Martin, Stephen H.....	Washington, D. C.....	Clerk (telegraph operator), temporary promotion announced in list of changes for June, 1918, made permanent.
Mead, William L.....	Washington, D. C.....	Clerk (telegraph operator), temporary promotion announced in list of changes for October, 1918, made permanent.
Oates, Walter A.....	New York, N. Y.....	Observer, on furlough for military duty, resigned; record, excellent.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
O'Connor, John D.....	Chicago, Ill.....	Messenger boy, resigned; record, fair.
Parrack, Cecil A.....	Del Rio, Tex.....	Observer, granted leave of absence without pay from January 1 to March 31, 1920, on account of ill health.
Priester, Elijah.....	Columbia, S. C.....	Messenger, resigned; record, good.
Rausch, Arthur A.....	St. Louis, Mo.....	Appointed observer at \$1,260, by reinstatement.
Reed, Wilson, jr.*.....	Norfolk, Va.....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Rietman, Herman L....	Amarillo, Tex.....	Promoted to apprentice at \$600 from messenger boy at \$480.
Rohrer, Charles W.....	Washington, D. C.....	Promoted temporarily to clerk at \$1,800 from \$1,600.
Schnuettgen, Miss Hildagard C.	Little Rock, Ark.....	Messenger, resigned; record, excellent.
Seyboth, Robert.....	Washington, D. C.....	Chief of Printing Division, furloughed without pay from December 16, 1919, to March 15, 1920, on account of ill health.
Souder, Miss Mary O...	Washington, D. C.....	Appointed clerk at \$1,000; temporary appointment terminated.
Sportsman, Orville B.*..	North Platte, Nebr....	Messenger boy, resigned; record, fair.
Steinberg, Charles*.....	Jacksonville, Fla.....	Messenger boy, resigned; record, good.
Swartz, John R.....	Reading, Pa.....	Messenger boy, resigned; record, excellent.
Swartz, John R.....	Reading, Pa.....	Appointed assistant observer at \$1,080.
Thickstun, Arthur C....	Washington, D. C.....	Promoted temporarily to clerk (draftsman) at \$1,200 from \$1,000.
Walz, Ferdinand J.....	Louisville, Ky.....	Professor of meteorology, leave of absence without pay extended to February 3, 1920, on account of continued ill health.
Welch, Miss Margaret M.	Washington, D. C.....	Clerk, transferred to Interstate Commerce Commission.
White, Clement R.....	Cape Henry, Va.....	Vessel reporter, resigned; record, excellent.
Williams, J. Thaxter...	Helena, Mont.....	Appointed messenger boy at \$480.
Wolf, Vernon N.....	Washington, D. C.....	Clerk, temporary promotion announced in list of changes for July, 1919, made permanent.
Young, Frederic A.....	Washington, D. C.....	Promoted temporarily to clerk at \$1,600 from \$1,400.
Douglas, Kavanaugh*..	Little Rock, Ark.....	} Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Drennan, Robert F.*...	Phoenix, Ariz.....	
Stephenson, Clyde D.*..	Detroit, Mich.....	

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Burke, Leonard J .....	Duluth, Minn.....	} Appointed messenger boy at \$480; temporary appointment terminated.
Hobson, Dean E.....	Denver, Colo.....	
Mallette, Baker H.....	Vicksburg, Miss.....	
Barnes, Miss Essie L.*..	Little Rock, Ark.....	} Appointed messenger at \$480, temporarily, pending certification of eligibles.
Gregory, Miss Julia*....	Cheyenne, Wyo.....	
Hazen, Miss Helen E.*..	Canton, N. Y.....	
Brown, Theodore*.....	Washington, D. C.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Chase, Homer F.*.....	Chicago, Ill.....	
Johnson, Philip M.*....	North Platte, Nebr....	
Scott, Harry B.*.....	Jacksonville, Fla.....	
Simmons, Cyril F.*.....	Reading, Pa.....	
Till, William D.*.....	Columbia, S. C.....	

\* Indicates temporary appointment.  
 † Subject to demotion to the position and salary from which he is hereby promoted if such demotion be necessary in order to restore to his position and salary in this department any absentee who has gone into the military or naval service of the United States upon return to duty of such absentee.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Brunkow, William H ...	Hannibal, Mo .....	Ellendale, N. Dak., assistant.
Swartz, John R.....	Reading, Pa.....	Cape Henry, Va., assistant.

*C. H. Mawin.*  
 Chief of Bureau.