

WEATHER BUREAU TOPICS AND PERSONNEL

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1938-1941

UNITED STATES DEPARTMENT OF AGRICULTURE

WEATHER BUREAU TOPICS AND PERSONNEL

JANUARY 1938

PROOF OF CORRECT DATE OF BIRTH REQUIRED

Personnel Circular No. 58, dated January 4, 1938, from the Acting Director of Personnel, is given hereunder for the information of all Weather Bureau officials and employees.

Because of the provisions of retirement legislation and in order to prevent, as far as possible, illegal appointments and other difficulties which have arisen because of misstatements of age or date of birth by applicants for positions in the classified service, the Civil Service Commission will hereafter require proof of correct date of birth in certain types of cases.

Beginning January 1, 1938, proof of correct date of birth will be required at the time of entrance on duty in the case of probational appointees from certificates issued by the Central Office of the Civil Service Commission (regardless of whether the appointment is to be in the District of Columbia or in the field). Eligibles certified for appointment as junior messenger or assistant messenger will be required to furnish proof in advance of appointment. Steps are now being taken by the Civil Service Commission to establish the correct dates of birth of eligibles on registers used for appointment to positions of junior messenger and assistant messenger.

Announcements of examinations (when the register is to be maintained in the Central Office of the Civil Service Commission) will hereafter contain a statement substantially as follows:

"Applicants who attain eligibility and are selected for appointment must furnish proof of date of birth at the time of entrance on duty. An extension of time, not to exceed 6 months after appointment, may be granted upon satisfactory evidence that additional time is necessary. Notices of ratings sent to eligibles will contain further information."

Eligibles will, therefore, have ample notice of the requirement of establishing the correct date of birth.

In making selections from certificates issued by the Central Office of the Civil Service Commission, it will be necessary to inform the eligibles selected that they are required to furnish proof to establish the correct date of their birth in accordance with the procedure outlined in Civil Service Form 2473. The Civil Service Commission will not authorize the Department to deviate from this procedure. It will, therefore, be necessary to eliminate these steps in the order of their succession.

Information should be furnished selected eligibles as to the earliest State records maintained by the States in which they were born. If the eligible's date of birth preceded the earliest State records, he should be advised that birth records are also maintained by city, county, and town clerks and inquiry should be made of these officers for the required information.

National Oceanic and Atmospheric Administration Weather Bureau Topics and Personnel

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If the eligible selected was born in a foreign country, or if for some other sufficient reason proof of date of birth cannot be submitted at the time of appointment, additional time will be allowed, but the appointee may not be retained beyond 6 months without furnishing evidence to the Civil Service Commission, through the Division of Appointments, as to the correct date of birth unless it is shown to the satisfaction of the Civil Service Commission that it has not been possible to obtain the required proof. Birth certificate, or certified copy of baptismal certificate, should be furnished, and no other evidence will be accepted unless it is shown that neither of the above can be obtained.

Whenever possible, birth certificate or certified copy of baptismal certificate should accompany Department Form 41, "Recommendation to the Secretary", for all probationary eligibles selected for appointment from certificates issued by the Central Office of the Civil Service Commission.

If additional information is desired it may be secured from the Chief, Division of Appointments.

REFUND OF RETIREMENT DEDUCTIONS

A number of complaints have been received from former employees in regard to the delay experienced in receiving refund of their retirement deductions after the termination of their appointment in the Weather Bureau. In explanation of this delay, it may be stated that a considerable amount of work is involved before certification of the account for final payment can be made. The last pay roll must be vouchered and the deductions for that period entered thereon; leave without pay, taken at any time during the service, must be checked and certified and these records forwarded to the Department; the Retirement Section of the Division of Appointment of the Department must check and certify the account to the Civil Service Commission, which again verifies it before certifying it for payment. Where employment has been in other Bureaus and Departments it is necessary to check the service record and verify the retirement deductions made therein before the retirement account is passed for payment. Hence, it will be noted that considerable delay is necessarily experienced before final payment can be made. Officials in charge of stations should bring this to the attention of all employees under their supervision for whom retirement deductions are made under the Retirement Act.

PREFERENCE IN REDUCTION OF FORCE

Personnel Circular No. 59, dated January 26, 1938, from the Acting Director of Personnel, is given for the information of all Bureau chiefs.

Section 5 of civil-service rule XII reads as follows:

In harmony with statutory provisions, when reductions are being made in the force, in any part of the classified service, no employee entitled to military preference in appointment shall be discharged or dropped or reduced in rank or salary if his record is good; or, if his efficiency rating is equal to that of any employee in competition with him who is retained in the service.

Under date of October 22, 1936, and again on January 15, 1938, the Civil Service Commission issued circular letters to the heads of Departments, independent establishments, and emergency agencies to the effect that the President of the United States had informed the Civil Service Commission that it is his desire that in mak-

ing reductions in force the civil-service rules be applied by all agencies which are going to be on a permanent basis, and that, accordingly, the provisions of section 5, civil-service rule XII, should be applied regardless of the place of employment, and should also be applied in the regular branches of the Government in making reductions in force in excepted positions.

The chiefs of all Bureaus and establishments of the Department of Agriculture are requested to cause appropriate instructions to be issued to insure compliance with the President's request when reductions in force involving non-civil-service employees are necessary.

ACCIDENT PREVENTION

It is desired to call attention to a recent accident at the Nashville Weather Bureau Airport Station.

On January 9, about 2:30 a. m., the observer, after fastening the meteorograph to the plane, left for the Weather Bureau Office, which was in a direction away from the right wing tip under which the instrument was fastened. On second thought, he returned to the instrument, apparently to satisfy himself that the pen was working properly. As it was dark he was using a flashlight, and it is thought that after turning off the light he became confused as to the direction in which the office lay and walked directly into the propeller. The bone in his left arm between the elbow and the shoulder was broken and it may be necessary to amputate his arm.

It is desired to caution all personnel engaged in this work of the constant danger incident to working near an airplane while the motor is running.

PREPARATION OF STANDARD FORM 1034

Station officials are requested in preparing Standard Form 1034 to so describe the articles or services purchased as to give the Central Office sufficient information on which to make a determination as to whether or not the proper authorization is quoted and, further, whether or not the expenditure is placed in the proper objective classification. For example, an expenditure for repairing an office clock is chargeable to Circular No. 1, paragraph I, or Circular No. 7, paragraph I, depending upon the activity involved, while an expenditure for repairing a barograph clock is chargeable to either Circular No. 1, paragraph IV, or Circular No. 7, paragraph IV. A purchase of lumber or paint for repairs to office equipment would involve a charge to Circular No. 1, paragraph I, or Circular No. 7, paragraph I, while a similar purchase for repairs to an instrument shelter would involve a charge to either Circular No. 1, paragraph IV, or Circular No. 7, paragraph IV. In these examples it will readily be seen that vouchers should be so stated as to indicate clearly the purpose of the expenditures. In the case of a clock it should be shown whether it is an office or an instrumental clock and for what activity it will be used. In the case of lumber or paint there should be shown the purpose and the activity concerned.

In its objective classification record the Central Office must differentiate between equipment, supplies, repairs, etc. In many cases this cannot be done unless the official describes exactly what he has purchased and indicates the use to which it is to be put. Therefore, when preparing vouchers covering materials and/or labor, officials should indicate the use to be made of the materials or the purpose for which the labor was employed. It is, of course, not necessary to indicate the use to be made of supplies, such as ink, pencils, etc., when the purpose of the purchase is self-evident.

PREPARATION OF PAY ROLLS

Several paragraph sections of Station Regulations are hereby amended, as set forth below, in order to give effect to a ruling of the Comptroller General as to use of given names (instead of initials) on pay rolls and to comply with a request of the Disbursing Office that names be listed opposite the amounts for convenience of the check writers.

Paragraph 94 (b). *Listing of names.*—The names of employees (with surnames last) will be grouped by appropriations and listed in the order of the per-annum salary rates, leaving a blank space after each appropriation group. Each employee's applicable classification grade, title, and per-annum salary will be typed above his name. The salary amounts must appear directly opposite the name. The full Christian name of the employee with additional initials, if any, will be used, and care should be taken to see that the name is identical with that given on the appointment paper as regards form and spelling. The appropriation from which an employee's salary will be paid is indicated on his appointment or promotion paper.

Paragraph 95 (c). *Listing of names.*—The names of the observers (with surnames last) will be arranged in the order in which the substations appear under the applicable circular paragraphs. The title and salary (on the basis given in the appointment paper) of each employee will be typed above his name. The amounts due must appear directly opposite the name. The full Christian name of the employee, with additional initials (if any), will be used, and care should be taken to see that the name is identical with that given on the appointment paper as regards form and spelling.

Paragraph 96 (c). *Miscellaneous details.*—The names of substation observers (with surnames last) should be arranged in groups by circular paragraphs in the order of the substations under the paragraphs, leaving a space after each group. The name of the substation at which employed and the amount of the observer's basic salary (per month, per diem, or per observation) will be typed above each name. The amount due must appear directly opposite the name. The full Christian name of the employee, with additional initials, if any, will be used, and care should be taken to see that the name is identical with that given on Form 4076.

Each group will be headed by the title of the observers listed thereunder (which title should be that given in the circular) and the number, paragraph, and date of the circular under which employed. When circular authorizations are amended by printed instructions, reference to the instructions by number and date should be made in the "Remarks" column on the line carrying the name of the observer whose status is affected thereby.

PREPARATION OF TAX-EXEMPTION CERTIFICATES

Station officials and employees are requested to include the following information (in addition to that called for on the form) on Standard Form 1094, "U. S. Government Tax-exemption Certificate":

1. The names and addresses of both vendor at the point of delivery and the firm claiming exemption or certifying to the correctness of the amount of tax included in the purchase price when the names and/or addresses are different because of the existence of an agency relationship, e. g., the vendor might be Cal Young, 24th and M Streets NW., Washington, D. C., and the company claiming exemption might be the Gulf Oil Corporation, Philadelphia, Pa.
2. The name of the Department and Bureau with which the employee is connected, i. e., "U. S. Department of Agriculture, Weather Bureau," should be placed after the signature and title of the purchaser.
3. Both the date of purchase and the date of issue of the certificate, when the two are not the same, with specific designation for each date.
4. The license-plate number of the automobile in which the gasoline was used when the certificate is issued to cover tax on a purchase of gasoline while traveling on official business.
5. Quantity purchased, unit purchase price, and unit price of tax.

MICROPHONES IN WEATHER BUREAU OFFICES

Microphones have been installed in approximately 80 Weather Bureau Offices by commercial radio stations and schedules arranged whereby forecasts, weather data, etc., are broadcast direct from Weather Bureau Offices by the officials in charge or by assistants at definite times each day. Programs of this kind are considered excellent means of disseminating weather information when properly conducted, and are encouraged by the Central Office. Occasionally, however, objectionable features arise in connection with the broadcasts. Installations of microphones cannot be approved where the broadcasts are to be associated with advertising matter in any way, or where the Bureau will be put to any expense for microphone installations and operation. It is requested, therefore, that each case be presented to the Central Office for review before installation is made.

The attention of station officials is invited to a similar article on page 37 of June 1934 TOPICS AND PERSONNEL under the title "Weather Broadcasts from Weather Bureau Offices".

INTERNAL REVENUE FORM 1099

Under instructions of the Director of Finance of the Department of Agriculture, the amounts paid officials and employees of the Weather Bureau on reimbursement accounts for subsistence and other expenses during the calendar year 1937 will not be included on Internal Revenue Form 1099. All copies of Form 1099 prepared, carrying payments for salaries, will be furnished. Any official or employee who desires information as to amounts paid on reimbursement accounts during 1937 may obtain such information by addressing a letter, in duplicate, to the Central Office.

Beginning with January 1, 1938, the record of payments on reimbursement accounts will not be kept at the Central Office by names of individuals. It will, therefore, be incumbent upon officials and employees to maintain the necessary personal record of such payments.

BITUMINOUS COAL ACT OF 1937

A notice, dated January 13, 1938, carrying the following inclosures which are self-explanatory, was mailed to all stations known to the Central Office as purchasing bituminous coal: "Purchase, Sales, and Traffic Circular, No. 339, Procurement Division Circular Letter, No. 226, and Supplement No. 4, covering stipulations to be made a part of contracts for purchase of bituminous coal."

Stations concerned with bituminous coal procurement and not having received a copy of the notice dated January 13, 1938, should immediately notify the Central Office.

PURCHASE OF AUTOMOBILE TIRES AND ACCESSORIES

All requests for automobile tires, tubes, and accessories must be submitted to the Central Office on a Purchase Requisition, accompanied by a Project Sheet, for consideration and approval prior to any local purchase in the field. Purchases of an emergency nature may be made, provided a statement is attached to the voucher. This action is necessary since some of these items are under existing Procurement Division contracts which include delivery to points in continental United States.

CEILING-LIGHT PROJECTORS

All airway stations using the new 11.8-volt-ceiling-light projector are cautioned not to tighten the set screws too tightly when clamping the slip-fitter to the pipe support, since undue strain will result in breaking the iron casting containing the set screws. Large wrenches should not be used for this purpose, a 6-inch wrench being sufficient; a small open-end wrench is recommended. At one station the glass in the door was broken by heat, due to inadvertently permitting the lamp to be turned on all night.

AMENDMENT TO STATION REGULATIONS

Station Regulations, paragraph 119, "Disposition of Property" (b), *Y property*, second sentence, is hereby amended to read: "Repairable thermometers, such as retreaters, thermometers needing new backs, sling psychrometers, etc., will be retained at station until their condition can be passed upon by an inspector, or until their return has been specifically authorized. Authority for return of such thermometers on initiative of the official in charge without previous correspondence is hereby revoked."

Appropriate marginal notation should also be made in TOPICS AND PERSONNEL for November 1925, page 79.

Repair of used thermometers is found to be unwarranted under present conditions.

REQUIREMENTS UNDER THE "KICK-BACK" LAW

The attention of station officials is invited to the fact that the submission of a certified pay roll under the provisions of the "kick-back" law, carrying rates not in agreement with rates for labor shown on the voucher, is subject to question. It is, accordingly, suggested that contractors be asked to state their bills to show charges for labor in accordance with actual payments therefor and, if any charges are made for overhead, workmen's compensation, etc., that such be listed separately.

PRINTING AND ISSUING STATION ANNUALS

Many requests have been received at the Central Office from field officials desiring to have station Annual Meteorological Summaries printed but who do not have printing equipment available.

In the past, several stations have volunteered to print one or more annuals after completing their own, and a few are still helping in this way. Officials in charge of stations having printing equipment who would be willing to cooperate in this work should communicate with the Division of Climate and Crop Weather. All manuscripts will be arranged as nearly as possible like the annual of the station offering to do the printing, so that a minimum amount of labor will be involved. Further, it is requested that all stations performing additional work, in the way of station annuals, render a report near the close of November 1938 for the attention of the Division of Climate and Crop Weather in order that the Central Office may be fully aware of the extent of cooperation by field stations.

It is noted that a great number of stations have not issued an Annual Meteorological Summary for several years. The lapse of time between the current year and the last annual published should not, as a rule, exceed 4 years, preferably not more than 3 years. Therefore, stations exceeding the above limit are requested to make every effort to have an annual published during the current year.

DUST STORMS

Attention is invited to the second paragraph of memorandum dated March 25, 1935, relative to dust storms. This paragraph states, in part—

* * * Station officials will submit, at the end of each month, beginning with March 1935, a statement showing the days with dusty conditions, the intensity as measured by the visibility, duration, special remarks, and such photographs or newspaper clippings as may be obtained without expense to the Bureau. These reports should be mailed to the Central Office at least by the 10th of the following month. If no dust was noted, report need not be made. Section directors should add to their station reports a brief summary covering conditions for their State. This service will continue until further notice.

Mark all envelopes "Forms for Division of Climate and Crop Weather."

HOLIDAYS

There is quoted below, for the information and guidance of all Weather Bureau personnel, a letter dated January 28, 1938, from the Acting Executive Director of the National Emergency Council to the Secretary of Agriculture:

The President has approved the following schedule of holidays affecting Federal employees during the remainder of the calendar year 1938: February 22, May 30, July 4, September 5, November 24, and December 26.

Inasmuch as Christmas this year and New Year's Day 1939 fall on Sunday, the morning half days of December 24 and December 31 will be included in the above schedule of holidays.

FROST WARNINGS

Station officials are reminded that the season is approaching when frost warnings will be needed. When vegetation has advanced sufficiently to require warnings, notification should be sent to the forecast center by mail, if delivery can be effected in 24 hours; otherwise, by telegraph. Notification by mail should be in a separate letter. Forms of any kind should not be used for the purpose. See paragraph 75, Weather Code (Revised) 1936.

COURT-ATTENDANCE FORMS

Station officials are requested, when forwarding Report on Court-Attendance forms and fees to the Central Office, to mark the envelopes "Court Attendance" instead of addressing them to any one Division.

CLINOMETERS

A small number of special clinometers of an inexpensive type, as designed by Mr. Harry F. Choun of the Denver office, for the purpose of measuring the angles of interception by obstructing objects in the neighborhood of the rain gage, have been procured for use, primarily, by inspectors functioning for climatological centers. They are available for transfer in lots of one only on receipt at the Central Office of requisition from section directors.

NAME AND ADDRESS OF RICHMOND, IND., CHANGED

Effective March 1, 1938, the name and post-office address of the Weather Bureau Office, now designated as being at Richmond, Ind., will be changed to Weather Bureau Office, Centerville, Ind.

NEW INSTRUCTIONS TO MARINE METEOROLOGICAL OBSERVERS

A copy of the sixth edition of Circular M, "Instructions to Marine Meteorological Observers," dated January 1938, has been sent to each field station of the Bureau. Additional copies of this circular for distribution from marine centers may be secured on requisition from the Central Office or from New York, New Orleans, or San Francisco.

METHOD OF REUNITING BROKEN ALCOHOL COLUMNS

The Oklahoma office has reported the advantage, over methods used to reunite broken alcohol columns, in slinging minimum thermometers at the end of a chain about 13 inches long, attached to a sling psychrometer handle. It is understood that other stations have had similar experience.

Trials at the Central Office bear out this claim, and action is being taken to procure a supply of chain and handle assembly sufficient to permit issue of one to each climatological section.

RADIO CIRCULAR NO. 1 (REVISED)

A new edition of Radio Circular No. 1 (Revised), dated January 15, 1938, has been distributed to all Weather Bureau stations. Any station failing to receive a copy of the circular should advise the Central Office.

DEPARTMENT REGULATIONS

Copies of amendments to Department Regulations, paragraphs 3213 and 3319, were mailed to all regular and airport stations on January 21-22, 1938. Any station not receiving a copy of each should notify the Central Office.

RETIREMENT

Mr. Joseph Brown, minor mechanic at the Central Office, was retired January 31, 1937. Mr. Brown was born at Middleburg, Va., on January 17, 1873. He entered the Weather Bureau service as laborer on July 1, 1899. His entire Government service, a period of slightly over 38 years, has been in the Weather Bureau at the Central Office.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of January 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Alexander, Harold S.	Yuma, Ariz.	Minor observer at \$1,020, resigned; record, very good.
Anderson, Guy C.	Detroit, Mich. (Airport.)	Appointed junior observer at \$1,440.
Arenberg, David L.	Boston, Mass.	Junior observer at \$1,440, resigne; record, good.
Barlow, Milton F.	Boston, Mass. (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Barnes, Jesse E.	Memphis, Tenn. (Airport.)	Assistant observer at \$1,020, name changed on roll from Jesse E. Bernstein.
Bertrand, Wallace A.	Sacramento, Calif.	Promoted to senior observer at \$2,000 from assistant observer at \$1,740.
Bristor, Charles L.	Huron, S. Dak.	Appointed junior observer at \$1,440.
Brown, Homer F.	Peoria, Ill.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Brown, Joseph.	Washington, D. C.	Minor mechanic, Cu-3, at \$1,500, retired.
Burns, Francis M.	Washington, D. C.	Appointed assistant clerk-stenographer, CAF-3, at \$1,620, by transfer from the Agricultural Adjustment Administration.
Camper, Henry F.	Washington, D. C.	Designation changed to junior clerk, CAF-2, at \$1,500 from junior mechanic, Cu-5, at the same salary.
Carpenter, Carl A.	Salt Lake City, Utah. (Airport.)	Promoted to junior meteorologist at \$2,200 from senior observer at \$2,100.
Coulter, Marshall J.	Sault Ste. Marie, Mich. .	Promoted to under observer at \$1,200 from minor observer at \$1,020.
Dame, George E.	Washington, D. C.	Appointed guard (watchman), Cu-3, at \$1,200, by transfer from the Department of the Interior.
Davis, Joseph M.	Des Moines, Iowa.	Appointed minor observer at \$1,020.
Epstein, David.	Buffalo, N. Y. (Airport.)	Appointed junior observer at \$1,440.
Feiss, Frederick T.	Washington, D. C.	Promoted to junior clerk, CAF-2, at \$1,440 from assistant messenger, Cu-2, at \$1,080.
Fox, Ehner J.	Billings, Mont.	Promoted to junior meteorologist at \$2,000 from senior observer at the same salary.
Frank, Nathan J.	Baltimore, Md.	Minor observer at \$1,020, appointment terminated; record, good.

Appointments, promotions, reductions, etc.—Continued

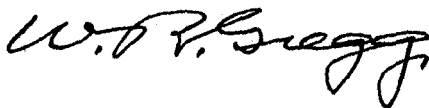
Name	Station	Remarks
Fugate, George M.	El Paso, Tex.	Appointed minor observer at \$1,020.
Gallenne, Mrs. Martha J.	Washington, D. C.	Appointed junior clerk, CAF-2, at \$1,440 by reinstatement in the Government service.
Goebel, Gerald E.	Washington, D. C.	Appointed assistant messenger, Cn-2, at \$1,080.
Grantham, William P.	Topeka, Kans.	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Harmantas, Christos.	Washington, D. C.	Appointed assistant meteorologist, P-2, at \$2,000.
Harris, Robert C.	Augusta, Ga.	Appointed junior observer at \$1,440.
Hasling, Robert F.	New Orleans, La.	Appointed junior observer at \$1,440.
Hawk, Ernest F.	Terre Haute, Ind.	Observer at \$1,800, resigned; record, very good.
Jennings, Arthur H.	Washington, D. C.	Designation changed to assistant scientific aid, SP-4, at \$1,020 from assistant observer at the same salary, with transfer from the field service to the departmental service.
Kenny, Howard S.	Chicago, Ill. (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,500.
Kenworthy, Philip W.	Washington, D. C.	Promoted to junior meteorologist, P-1, at \$2,000 from observer at \$1,800, with transfer from the field service to the departmental service.
Kerr, Samuel K.	St. Joseph, Mo. (Airport.)	Assistant observer, promoted to \$1,080 from \$1,020.
Koonce, William B.	Raleigh, N. C.	Appointed minor observer at \$1,020.
Myers, Arthur J.	Washington, D. C.	Promoted to seniorengeering draftsman, SP-6, at \$2,000 from assistant scientific aid, SP-4, at \$1,020.
Osmun, James W. W.	New York, N. Y.	Junior meteorologist at \$2,000, transferred from the departmental to the field service without change in grade or salary.
Pallant, Samuel F.	Washington, D. C.	Promoted to assistant clerk, CAF-3, at \$1,020 from junior clerk, CAF-2, at \$1,440.
Poitras, Joseph J.	Buffalo, N. Y.	Appointed minor observer at \$1,020.
Russell, Leslie E.	Jacksonville, Fla.	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Russler, Ben H.	New York, N. Y. (Newark, N. J.)	Appointed junior observer at \$1,440.
Saltzman, Bernard.	Ithaca, N. Y.	Appointed junior observer at \$1,440.
Schmalz, William M.	Winnemucca, Nev.	Appointed junior observer at \$1,440.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Shafer, Miss Alice R.	Washington, D. C.	Appointed junior clerk-stenographer, CAF-2, at \$1,440, by transfer from the Veterans' Administration.
Sherman, Louis B.	Baltimore, Md.	Appointed minor observer at \$1,020.
Stevens, Philip H.	Ithaca, N. Y.	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Walker, Robert C.	Nashville, Tenn. (Airport.)	Junior observer at \$1,440, granted leave without pay from January 21, 1938, to April 20, 1938.
Wilson, Carl L.	Parkersburg, W. Va. ...	Promoted to observer at \$1,800 from assistant observer at \$1,620.

Changes in assignments

Name	Relieved from—	Assigned to—
Ball, Lonnie F.	Salt Lake City, Utah ... (Airport.)	Baker, Oreg., in charge.
Bertrand, Wallace A.	Parkersburg, W. Va. ...	Sacramento, Calif., assistant.
Carpenter, Carl A.	Baker, Oreg.	Salt Lake City, Utah (Airport), assistant.
Foreman, Henley T.	Greensboro, N. C.	Montgomery, Ala. (Airport), assistant.
Grantham, William P. ...	New Orleans, La.	Topeka, Kans., assistant.
Jennings, Arthur H.	Ithaca, N. Y.	Washington, D. C., assistant.
Johnson, George A.	Jacksonville, Fla.	Baltimore, Md. (Logan Field), assistant.
Julien, Harold L.	Detroit, Mich. (Selfridge Field.)	Detroit, Mich. (Airport), assistant.
Kenny, Howard S.	Escanaba, Mich.	Chicago, Ill. (Airport), assistant.
Kenworthy, Philip W. ...	Boston, Mass. (Airport.)	Washington, D. C., assistant.
Kerr, Samuel K.	Topeka, Kans.	St. Joseph, Mo. (Airport), in charge.
Osmun, James W. W. ...	Washington, D. C.	New York, N. Y., assistant.
Smith, Jesse W.	Winnemucca, Nev.	San Francisco, Calif. (Oakland), assistant.
Thomas, Arthur N.	Cleveland, Ohio (Airport.)	Boston, Mass. (Airport), assistant.
Williams, Ernest B.	Detroit, Mich. (Airport.)	Detroit, Mich. (Selfridge Field), in charge.



WEATHER BUREAU TOPICS AND PERSONNEL

FEBRUARY 1938

MEETING OF THE AMERICAN METEOROLOGICAL SOCIETY

The Kansas City Seminar of the American Meteorological Society is arranging for a meeting to be held at Kansas City, Mo., June 9-10, 1938. The following topics have been tentatively selected:

"Advances in Meteorology."

"Forecasting and Forecasting Problems."

"Synoptic Analysis, Especially of Situations Peculiar to the Middle West."

"Climatology and Other Subjects Allied to Meteorology."

Those desiring to present papers at this meeting should communicate with Mr. Ernest J. Christie, Secretary, Weather Bureau Office, Kansas City, Mo.

ACKNOWLEDGMENT OF LETTERS OF APPRECIATION

It frequently happens that letters received by station officials from business men and others expressing appreciation for services are referred to the Central Office for its information. However, in many instances there is no evidence that the letter has been acknowledged and that the proper amenities have been observed. Such letters should be acknowledged by the officials to whom they are addressed, and the fact that this has been done should be indicated on the letters forwarded to the Central Office.

EMERGENCY ASSISTANCE AND PROMOTIONS

While the Central Office appreciates the real need for relief, which at times necessitates the employment of emergency assistants under letters of authorization, it is desired to invite attention to the fact that the cost of such employment is at the expense of funds budgeted for salary and necessarily reduces the very limited amount of money available for salary promotions. It is, therefore, essential in the general interest of the regular field personnel, that station officials do not request authorizations for emergency assistance until they have assured themselves that the need is actually emergent and that there is no possible means of avoiding the employment through rearrangement of work schedules, or other methods.

It will be helpful, also, if a careful check is made monthly as to each letter of authorization issued and the Central Office advised promptly whenever it is found that all, or a part, of the authorization may be canceled.

FIRST-ORDER STATIONS OPENED AT AIRPORTS

First-order Weather Bureau Offices or Weather Bureau Airport Stations, as shown under classification, were opened at the following points on the dates indicated:

Station	Classification	Opening date (1938)
Huron, S. Dak	W. B. A. S.	February 22
Marshall, Mo.	W. B. O.	February 18
Muskegon, Mich.	W. B. O.	February 18
St. Joseph, Mo.	W. B. A. S.	January 12

In connection with the above, see article in TOPICS AND PERSONNEL for November 1937, page 464.

SOLICITATION OF BIDS FOR AIRPLANE AND RADIOMETEOROGRAPH OBSERVATIONS

Action is being taken to invite bids for daily airplane observations to be made during the fiscal year beginning July 1, 1938, at the following Weather Bureau Airport Stations (WBAS) or Weather Bureau Offices (WBO):

Buffalo, N. Y.	WBAS	Spokane, Wash.	WBAS
Cheyenne, Wyo.	WBAS	St. Louis, Mo.	WBAS
Chicago, Ill.	WBAS	Billings, Mont.	WBO
Cleveland, Ohio	WBAS	Charleston, S. C.	WBO
Detroit, Mich.	WBAS	Dayton, Ohio	WBO
El Paso, Tex.	WBAS	Floyd Bennett Field, Brook-	
Fargo, N. Dak.	WBAS	lyn, N. Y.	WBO
Nashville, Tenn.	WBAS	Montgomery, Ala.	WBO
Oakland, Calif.	WBAS	San Antonio, Tex.	WBO
Oklahoma City, Okla.	WBAS	Sault Ste. Marie, Mich.	WBO
Omaha, Nebr.	WBAS	Shreveport, La.	WBO
Salt Lake City, Utah	WBAS	Winslow, Ariz.	WBO

Bids for daily radiometeorograph observations are also being invited for the following stations: Boston, Mass.; Burbank, Calif.; Fargo, N. Dak.; Nashville, Tenn.; Oakland, Calif.; Oklahoma City, Okla.; Omaha, Nebr., and Sault Ste. Marie, Mich.

It is expected to establish radiometeorograph observations instead of airplane observations at the latter eight stations, provided the bid prices are not excessive. Moreover, it is not certain that airplane observations will be established at all of the remaining stations listed above, owing to the expected discontinuance of these observations by the War Department and, therefore, the need for additional funds if the work is to be done by the Weather Bureau.

Station officials are hereby requested to bring this information to the attention of all known prospective bidders for airplane observations, advising them—in writing—to communicate promptly with the official in charge of the respective Weather Bureau station or stations for which they desire to submit bids.

Each station is also requested to forward to the Central Office, in an envelope marked "Aerological Division", the names and addresses of all such prospective bidders notified.

The Central Office is similarly advising all known prospective bidders and, in order to avoid duplications, the list which the Central Office is informing will be furnished to all stations and any prospective bidders included in that list should be omitted from the list advised by any station.

Accordingly, bid invitations will be sent only to those requesting them, either in writing or orally.

Stations issuing bids will advise the Central Office as to the number of copies of specifications required.

RETIREMENT FORMS

The following is an extract from memorandum dated February 14, 1938, received from the Chief, Division of Appointments, Department of Agriculture:

In view of the number of requests on the Civil Service Commission from the field employees for retirement forms which should be supplied by the Bureau's central personnel office, all field stations should be advised of the forms to be requested from the Washington personnel office and of those that should be requested from the Civil Service Commission, or the office of the Civil Service District in which they are located.

The following forms (Civil Service) should be requested from the Bureau's central personnel office:

"Application for Age, Optional, or Reduction of Force Retirements" (Form 3001).

"Application for Disability Retirement" (Form 3002).

"Application for Refund" (Form 3005).

"Application for Service Credit" (Form 3012).

"Designation of Beneficiary" (Forms 3008, 2806-1).

The following forms should be requested from the Civil Service Commission or any of the U. S. Civil Service District Offices:

"Application for Payment of Amount Due Deceased Employee or Annuitant" (Form 3006).

"Claim of Beneficiary" (Form 3007).

Your attention is called to the fact that Form 2806-2, "Change of Beneficiary", has been superseded by Form 2806-1, "Designation of Beneficiary", of July 1936.

This new Form 2806-1 contains a revocation clause which revokes any and all previous designations of beneficiaries and may be used, therefore, for change in beneficiary. However, for an original designation the old Form 2806-1, "Designation of Beneficiary", of September 1934, should be used until the supply on hand is entirely depleted.

FILING TIMES OF SGL D&A OBSERVATIONS

A new schedule of filing times for SGL D&A reports has been submitted by the Western Union Telegraph Company and approved by the Weather Bureau. This schedule becomes effective with the 7:30 a. m. (E. S. T.) observation of March 16, 1938. A circular letter has been issued notifying all stations in the SGL D&A system of the times at which their reports will be filed. Any station failing to receive this notification should advise the Central Office accordingly.

SURPLUS PROPERTY

The following property is surplus at the Weather Bureau Office, Houston, Tex., and available for transfer:

One 6-drawer, box-type, oak filing cabinet, for cards 3 by 5 inches, filed vertically. Outside dimensions are $12\frac{3}{4}$ inches high by 13 inches wide by 16 inches deep. This cabinet was recently refinished and is in excellent condition.

One oak sectional book case, four sections, with top and base. Outside dimensions of each section are $10\frac{1}{4}$ inches high by $9\frac{1}{2}$ inches deep by 34 inches long, accommodating books up to $7\frac{1}{2}$ inches high. The case, assembled, stands $49\frac{1}{2}$ inches high. This case is in serviceable condition except for one sliding glass door, which has become loose but could probably be repaired at slight expense.

One oak case for bound volumes of the Washington Weather Map, including 13 bound volumes of the Washington map from January 1, 1900, to June 30, 1906. The case, which is in serviceable condition, is $32\frac{1}{2}$ inches high by 40 inches wide by $21\frac{1}{2}$ inches deep, and has vertical slots for 19 volumes. The binding of the 13 volumes of maps is mostly in poor condition. The case and maps may be transferred together, or separately, to any station requiring them.

Eighty-five map, or bulletin, frames of oak, with steel clip, 11 by 16 inches outside dimensions, and accommodating maps or bulletins up to $8\frac{3}{4}$ by $13\frac{3}{4}$ inches. These frames are in good condition.

Stations desiring any of these items should correspond with the Central Office.

MIMEOGRAPHIC WORK AT PRINTING-PLANT STATIONS

It is requested that hereafter a report of work done on the mimeograph at printing-plant stations be included in J. C. P. Form No. 1a. It will be proper to designate this class of work by adding the abbreviation "(Mimeo.)" after each job. Do not use separate forms for the report.

Only two samples of each job, covering the entire quarter, are necessary to accompany the report on mimeographic work. Samples of work should not be sent in for the entire period.

Circular letters, office correspondence, etc., are not to be considered in the reports on mimeographic work. In fact, the reports should be confined to daily, weekly, and monthly publications.

BITUMINOUS COAL ACT OF 1937

A notice, "Revocation of Minimum Prices and Marketing Rules and Regulations Pertaining to the Bituminous Coal Act of 1937", together with Purchase, Sales, and Traffic Circular 402, dated February 28, 1938, was mailed March 8, 1938, to all stations known by the Central Office to be using bituminous coal. If any station using bituminous coal, or proposing to purchase it, has not received the above notice and circular, a copy should be obtained from the Central Office before taking any action to issue bids or ask for quotations.

VOUCHERS FOR EMERGENCY FIELD PRINTING AND BINDING

The addition to paragraph 100(a) of Station Regulations, as published on page 421 of the August 1937 number of TOPICS AND PERSONNEL, is hereby amended to read as follows:

All vouchers covering the cost of job printing and binding in the field must be submitted in quadruplicate (original on Standard Form 1034 and three memorandum copies on Standard Form 1034a), and, when printing is involved, the voucher must be accompanied by a sample of the job.

Attention is also directed to Regulations of the Joint Committee on Printing, paragraphs 8 and 74, wherein it is required that a report on J. C. P. Form No. 2 be furnished with each job of contract printing and binding. It is necessary that this form accompany the voucher before payment can be made, and requisition for them should be made to the Central Office when needed.

SUPPORTS FOR COTTON-REGION INSTRUMENT SHELTERS

As indicated in Circulars B and C, 1935 (Revised), paragraph 4, and in TOPICS AND PERSONNEL, May 1936, supports for cotton-region instrument shelters built locally with posts sunk into the ground can be more strongly made and better anchored than the rather slender supports stocked in the Central Office.

In order that duplication may not occur, supports will not be furnished with cotton-region shelters issued on requisition unless they have been specifically requested.

CEILING-LIGHT PROJECTORS

Attention has been invited by the Cleveland Airport official to the last sentence on page 6 of January 1938 TOPICS AND PERSONNEL. It is quite likely that the breakage of the cover glass in question, ascribed to the lamp having been burning all night, was really due to an imperfect cover glass.

DEPARTMENT REGULATIONS

Paragraphs 1552, 1573, 1675, and 4127, amendments 29 and 53 to 55, inclusive, of Department Regulations were mailed to all regular and airport stations on February 21, 1938. Stations not receiving a copy of each should notify the Central Office. In connection with amendment 29, paragraph 4127, see amendment 52, paragraph 4121, which authorizes the removal of paragraph 4127.

DEATH

Mr. Arthur Teeple, who was retired on April 30, 1932; on account of disability, died on February 27, 1938, at the home of his son and daughter whom he was visiting in South Gate, Calif. A notice of his retirement and an outline of his service will be found in TOPICS AND PERSONNEL for June 1932.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of February 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Beard, Jacob T. B.....	Jacksonville, Fla..... (Airport.)	Appointed junior observer at \$1,440.
Booth, Thomas W.....	San Francisco, Calif.... (Mount Shasta)	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,000.
Brown, Merle A.....	Winnemucca, Nev.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Byrd, Harold L.....	Washington, D. C.....	Messenger, Cu-3, at \$1,200, transferred to Bureau of Public Roads.
Clapp, Philip F.....	Washington, D. C.....	Appointed junior meteorologist, P-1, at \$2,000 by transfer from Bureau of Agricultural Economics.
Croom, Herman L.....	Miami, Fla..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Davis, Walter R.....	Miami, Fla..... (Airport.)	Promoted to senior observer at \$2,000 from observer at \$1,800.
Dix, Fralan L.....	Pittsburgh, Pa.....	Junior observer, promoted to \$1,500 from \$1,440.
Foreman, Henley T.....	Montgomery, Ala..... (Airport.)	Assistant observer, promoted to \$1,680 from \$1,620.
Harper, La Mar E.....	Washington, D. C.....	Appointed photo-lithographer, mechanical, SP-6, at \$2,200 by transfer from the Forest Service.
Hayward, Thomas B....	Spokane, Wash.....	Junior meteorologist, restored to duty from leave without pay, effective February 21, 1938, with readjustment in salary from \$2,600 to \$2,100.
Hillman, James.....	Chicago, Ill..... (Airport.)	Junior observer at \$1,440, re-signed; record, very good.
Hiner, Thomas J.....	Cincinnati, Ohio..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,680.
Holland, Mrs. May S....	San Francisco, Calif....	Junior stenographer at \$1,560, restored to duty from leave without pay, effective February 3, 1938.
Hoover, Robert A.....	Boston, Mass.....	Appointed junior observer at \$1,440.
Hurley, John C.....	Cincinnati, Ohio.....	Junior observer at \$1,440, name changed on rolls from John Hurley.
Jobe, Cecil R.....	Knoxville, Tenn.....	Appointed minor observer at \$1,020.
Jordan, Clarence R.....	Washington, D. C.....	Promoted to assistant scientific aid, SP-4, at \$1,620 from junior scientific aid, SP-3, at \$1,440.
Julien, Harold L.....	Detroit, Mich.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Lindsay, Mrs. Mabel D..	Washington, D. C.....	Library assistant, SP-5, at \$1,800, name changed on rolls from Miss Mabel Hood Duncan.
McIntire, Mrs. Mary R..	Washington, D. C.....	Appointed junior stenographer, CAF-2, at \$1,440 by transfer from the Agricultural Adjustment Administration.
Machen, Guy C., Jr....	Roswell, N. Mex.....	Junior observer at \$1,440, suspended without pay from termination of February 16, 1938, pending further orders, but not beyond May 16, 1938.
Milano, Benjamin S....	Washington, D. C.....	Messenger, Cu-2, at \$1,080, name changed on rolls from Benjamin Milano.
Miller, Glenn M.....	Sault Ste. Marie, Mich..	Appointed junior observer at \$1,440.
Mitchell, James A.....	Sandusky, Ohio.....	Appointed junior observer at \$1,440.
Monkman, Elbert C....	Sault Ste. Marie, Mich..	Under observer at \$1,260, granted leave without pay from noon, January 18, 1938, to the termination of April 17, 1938.
Philofsky, Harold M....	Pittsburgh, Pa.....	Appointed junior observer at \$1,440.
Post, Donald S.....	Fort Wayne, Ind.....	Observer, promoted to \$1,980 from \$1,920.
Pulsifer, Ralph H.....	Yuma, Ariz.....	Appointed minor observer at \$1,020.
Reed, Wilson, Jr.....	New York, N. Y..... (Newark, N. J.)	Promoted to meteorologist at \$3,800 from associate meteorologist at \$3,200, with transfer from the departmental service to the field service.
Rosenblatt, Albert.....	Fresno, Calif.....	Junior observer at \$1,440, resigned; record, very good.
Sachse, Glen V.....	Kansas City, Mo..... (Airport.)	Appointed junior observer at \$1,440.
Schmerker, Miss Sarah J.	San Francisco, Calif....	Junior stenographer at \$1,440, temporary appointment terminated; record, very good.
Seale, Ernest D.....	Houston, Tex..... (Airport.)	Appointed junior observer at \$1,440.
Shaw, Miss Florence E..	Washington, D. C.....	Appointed junior clerk-stenographer, CAF-2, at \$1,440 by transfer from Railroad Retirement Board.
Shaw, Miss Florence E..	Washington, D. C.....	Junior clerk-stenographer, CAF-2, at \$1,440, resigned; record, good.
Seebode, Alvin F.....	Marshall, Mo..... (Airport.)	Assistant observer, promoted to \$1,740 from \$1,620.
Smith, Jesse W.....	Winnemucca, Nev.....	Assistant meteorologist, salary readjusted from \$2,900 ¹ to \$2,900 (cash salary).
Smith, Jesse W.....	San Francisco, Calif.... (Oakland.)	Assistant meteorologist, promoted to \$3,000 from \$2,900.
Staples, Lester A.....	Winnemucca, Nev.....	Observer, salary readjusted from \$1,800 (cash salary) to \$1,800 ¹ .

¹ Includes allowance of \$240 for quarters, fuel, and light.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Staples, Lester A.	Winnemucca, Nev.	Promoted to junior meteorologist at \$2,000 ¹ from observer at \$1,800 ¹ .
Taylor, George D.	Nashville, Tenn. (Airport.)	Appointed junior observer at \$1,440.
Stork, James E.	Muskegon, Mich. (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Wiener, Bernard A.	Syracuse, N. Y.	Junior observer at \$1,440, resigned; record, very good.
Williams, Ernest B.	Detroit, Mich. (Selfridge Field.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Youmans, Arthur W.	Modena, Utah.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440, effective November 22, 1937. This supersedes notice in November 1937 TOPICS AND PERSONNEL.
Youmans, Arthur W.	Modena, Utah.	Assistant observer, salary readjusted from \$1,620 (cash salary) to \$1,620 ¹ , effective December 1, 1937. This supersedes notice in November 1937 TOPICS AND PERSONNEL.

¹Includes allowance of \$240 for quarters, fuel, and light.²Includes allowance of \$120 for quarters, fuel, and light.*Changes in assignments*

Name	Relieved from—	Assigned to—
Burt, David A.	Montgomery, Ala. (Airport.)	Greensboro, N. C., assistant.
Croom, Herman L.	Nashville, Tenn. (Airport.)	Miami, Fla. (Airport), assistant.
Eichmeier, Albert H.	Des Moines, Iowa.	Huron, S. Dak. (Airport), in charge.
Hayward, Thomas B.	Nome, Alaska.	Spokane, Wash., assistant.
Huff, James H.	Knoxville, Tenn.	Wilmington, N. C., assistant.
Lockwood, Arthur C.	Sandusky, Ohio.	Columbus, Ohio, assistant.
Post, Donald S.	Detroit, Mich. (Airport.)	Fort Wayne, Ind., assistant.
Reed, Wilson, Jr.	Washington, D. C.	New York, N. Y. (Newark, N. J.), in charge.
Richards, Harland.	Miami, Fla. (Airport.)	Nashville, Tenn. (Airport), assistant.
Seebode, Alvin F.	Memphis, Tenn. (Airport.)	Marshall, Mo. (Airport), in charge.
Stork, James E.	Pittsburgh, Pa.	Muskegon, Mich. (Airport), in charge.



Chief of Bureau.

WEATHER BUREAU TOPICS AND PERSONNEL

MARCH 1938

LEAVE REGULATIONS

A copy of Executive Order No. 7845, dated March 21, 1938, prescribing regulations relating to annual leave of Government employees, and also of Executive Order No. 7846, dated March 21, 1938, prescribing regulations relating to sick leave of Government employees, are being sent to each Weather Bureau station. These regulations are effective as of January 1, 1938, and will supersede Executive Orders Nos. 7409 and 7410, dated July 9, 1936. Officials and employees are enjoined to read carefully the new regulations and guide themselves accordingly, paying particular attention to the paragraphs wherein the regulations differ from those heretofore in force. Special attention is invited to sections 2, 4 (b), 7, 9, 10, 11, 13, and 16 of the Executive order relating to annual leave, and sections 4, 5, 6, 8, 10, 11, 13, 14, 15, 16, and 17 of the Executive order relating to sick leave. Stations failing to receive a copy of Executive Orders Nos. 7845 and 7846 should immediately notify the Central Office.

FELLOWSHIP IN METEOROLOGY OFFERED

An announcement has been received from the Parks Air College, East St. Louis, Ill., of a fellowship, having a value of \$666, which will be awarded on the basis of undergraduate college work to an applicant who has had a bachelor's degree with at least 2 years of mathematics and physics. The fellowship will cover 1 year's tuition and room (board may be secured at the school for \$75 for each 12-week term), and will provide specific training in air-mass analysis and forecasting from the viewpoint of application to airline problems. The announcement states that application must be in the hands of the registrar on or before May 2, 1938, and that appointment will be made May 16, 1938.

ANNUAL- AND SICK-LEAVE RECORD

Stations desiring to have the balances of annual and sick leave for their employees checked as of December 31, 1937, may obtain same by forwarding a statement showing the amount of annual and sick leave due the employees according to their records. The Central Office will then check same and advise regarding any discrepancy.

AUTHORIZATIONS FOR FISCAL YEAR 1939

Station officials now having all-year or all-season authorizations for the employment of emergency assistance (except for the relief of airway observers) or for travel are to report immediately whether or not it is desired that an authorization therefor be issued for the next fiscal year, giving details as follows:

FOR EMERGENCY ASSISTANCE

1. Kind of service required.
2. Rate on daily, hourly, or observational basis.
3. Number of days, hours, or observations desired.
4. Whether or not Sundays and holidays are included.

Requests for authorization for employment of emergency assistance for relief of airway observers are not required, since authority is incorporated in Circular No. 7.

FOR TRAVEL

1. Name of employee (or employees). The names of all employees are required for use in issuing transportation requests or tax-exemption certificates.

2. Name of station.

(a) Whether or not the destination is outside the limits of the city in which the employee's official station is located.

(b) Number of miles between the destination and the city limits of the employee's official station.

(c) If entire journey cannot be made by public conveyance, give distance between destination and nearest approach by public conveyance.

3. Period of travel.

4. Method of transportation it is proposed to use.

5. Number of transportation requests required for each employee if public conveyance is to be used and the cost of a round trip equals or exceeds \$1.

6. Detailed statement as to economy and *advantage* which will result to the Government if use of personally owned automobile is desired with the reimbursement on a mileage basis. (See paragraph 162, Station Regulations.)

7. Approximate number of trips required during the fiscal year.

8. Estimate as to total cost.

Revised Form 4067 should be used in all cases of requests for authority to travel.

ANNUAL ESTIMATE LETTERS

Forms and instructions for the preparation of annual estimates for Circulars 1 and 7, paragraphs I, have been mailed to all regular and airport stations. Stations failing to receive a copy of each should notify the Central Office.

CHANGES IN RADIO CIRCULAR NO. 1

The following changes should be made in Radio Circular No. 1 (Revised), dated January 15, 1938:

Page 5, note (a) under list of stations to read "Observations taken at 1130 and 2330, G. C. T."

Page 41, stations WFB, WFD, New Orleans, La., 1630, G. C. T. schedule: 10460 kc to read 10470 kc.

Station WNU, New Orleans, La., 0480 and 1630, G. C. T. schedules, respectively: 11235 kc and 6300 kc to read 6300 kc and 11235 kc, respectively.

Stations WFB, WFD, New Orleans, La.: Delete 0800 and 1500, G. C. T., and "When issued" schedules and all details. Insert "When issued"; 90 kc, 6785 kc, or 10470 kc; storm and hurricane warnings and advisories. Change call letters of station to read WFB, WFD-WFC.

Add station WNU, New Orleans, La., and following details: "When issued"; 448 kc, 6300 kc, or 11235 kc; storm and hurricane warnings and advisories.

Page 44, station NPC, Puget Sound, Wash.: Delete 0430, G. C. T. schedule and details.

Page 47, station KEK, Hillsboro, Oreg., 0418, G. C. T. schedule: Weather information broadcast to read 4:30 p. m., P. S. T. (0030, G. C. T.), barometric pressure, temperature, wind direction and force, and state of weather at Tatoosh Island, North Head, and Marshfield; "When issued" schedule, weather information broadcast to read "Storm warnings for the Oregon and Washington coasts".

Page 49, station KFS, Palo Alto, Calif., 0400, G. C. T. schedule: Weather information broadcast to read "Wind and weather forecast for the area north of Cape Blanco, between Cape Blanco and Point Conception, south of Point Conception; storm warnings whenever issued; 4:30 p. m., P. S. T. (0030, G. C. T.), barometric pressure, temperature, wind direction and force, and state of weather at Tatoosh Island, North Head, Marshfield, Fort Bragg, Point Arena, Point Reyes, S. E. Farrallon, Estero Bay, Point Arguello, San Diego, and San Nicolas Island. 1600, G. C. T. schedule: Weather information broadcast to read same as 0400, G. C. T. broadcast, but observations as of 4:30 a. m., P. S. T. (1230, G. C. T.).

Page 53, station KOK, Clearwater, Calif., 0448, G. C. T. schedule: Weather information broadcast to read 4:30 p. m., P. S. T. (0030, G. C. T.), barometric pressure, temperature, wind direction and force, and state of weather at Point Arguello, San Diego, and San Nicolas Island. 1648, G. C. T. schedule: Weather information broadcast to read same as 0448, G. C. T. broadcast, but observations as of 4:30 a. m., P. S. T. (1230, G. C. T.). "When issued" schedule, weather information broadcast to read: "Storm warnings for the California coast."

DISCONTINUANCE OF SGL D&A REPORTS

For the information of all concerned, announcement is made that SGL D&A reports from Charleston, W. Va., were discontinued March 21; from Rolla, Mo., March 20; from Salisbury, Md., January 29, and from Moran, Kans., February 28, 1938, due to the closing of the second-order stations at these points.

In the case of Charleston and Rolla, code-sequence reports will be entered on the teletype from Bureau of Air Commerce teletype stations at the airports at these points, while reports to be entered in the code sequences at the new Bureau of Air Commerce teletype station at Chanute, Kans., will be substituted for those formerly made at Moran, Kans.

Salisbury, Md., has been closed and reports will not be available from that point hereafter.

INTERNATIONAL CODE FOR RADIO WEATHER REPORTS FROM SHIPS

Recently there was forwarded to each regular Weather Bureau station a copy of the publication entitled "International Code for Radio Weather Reports from Ships", W. B. No. 1046 (1938 edition). This code book contains changes in symbol letters and code tables which have been made by the International Meteorological Organization since the last edition of this publication in 1933.

In addition, a new, durable Code Card for the convenience of vessel weather observers in preparing radiograms and for entry of data on Form 1210A, containing the International Ship Code, is available for distribution. A copy of the Code Card has been mailed to each Weather Bureau station on the Atlantic, Gulf, and Pacific coasts, including San Juan, P. R., and Honolulu, Hawaii.

Supplies of the new code book and Code Card have been forwarded to Weather Bureau Offices at New York, N. Y., New Orleans, La., and San Francisco, Calif. Officials in charge of coastal stations having need for additional code books and cards should make requisition to the appropriate office (on the Atlantic coast, to New York; on the Gulf coast, to New Orleans; and on the Pacific coast and Honolulu, to San Francisco).

Copies of the old editions of these publications, and also W. B. No. 1005 (1930 edition), remaining on hand at Weather Bureau Offices for distribution to vessel weather observers, etc., should be destroyed.

FIRST POLISH MOUNTAIN METEOROLOGICAL STATION OPENED

On January 22, 1938, there was opened on Kasprowy Wierch, the first mountain meteorological station of its kind in Poland. This observation post is situated in the Tatra Mountains, 2,000 meters above sea level, and is a modernistic, one-story building, the cost of construction of which amounted to about 100,000 zlotys*. It is chiefly equipped with instruments of German and French make, as well as a few Polish

* One zloty equals about 19 cents.

apparatus. Instrument investment amounts to approximately 80,000 zlotys. The meteorological station will be engaged in the probing of sun rays, ozone stratas, cloud formations, and other weather phenomena.

It is also reported by the Polish Meteorological Institute that L. O. P. P. (League Against Air and Gas Attack) has started the construction of a similar but more costly station to be located on Pop Ivan Peak in the Carpathian Mountains, and in this connection the purchase of American meteorological equipment is being contemplated.

[The above article was submitted to the Specialties Division, Bureau of Foreign and Domestic Commerce, by the Commercial Attache, T. O. Klath, Warsaw, Poland.]

DAMAGE AND ACCIDENT REPORTS

On February 12, 1938, there were mailed to all of the then existing stations forms for reporting personal injuries, accidents, and property damage. These forms, entitled "Circumstances and Causes of Accident" and "Narrative Report of Accident", were accompanied by a circular, dated January 19, 1938, and a paper, "Recording and Reporting Accidental Injuries" which are self-explanatory.

It is imperative that the summarized form "Circumstances and Causes of Accidents" be rendered promptly at the close of each month whether or not there has been personal injury or property damage. Injuries or damage should be reported on the form "Narrative Report of Accident" and forwarded with the form "Circumstances and Causes of Accidents". Blocks Nos. 18 and 19, reporting man-hours worked and average workers during period, respectively, must be filled in.

It must be understood that the above-mentioned forms are entirely separate from the U. S. Compensation Commission forms, which must be rendered as in the past.

Stations established since February 12, 1938, are being supplied with the above-mentioned forms.

ACCOMMODATIONS ON TRAINS AND STEAMERS

Budget and Finance Circular No. 71, dated March 16, 1938, is given hereunder for the information of Weather Bureau officials and employees:

The Acting Comptroller General of the United States in decision of February 24, 1938, A-91947, in discussing a voucher covering reimbursement for traveling expenses of an employee of the Government, particularly mentioned one transportation request used by this employee in obtaining one first-class stateroom between two points at a cost of \$4.25, which represents the rate for the exclusive use of a stateroom, and the fact that as the staterooms on the vessels of the company concerned contain two or more berths which may be reserved separately, such employee could have obtained a lower berth at a cost of \$2.25. In the discussion of this factual situation the Acting Comptroller General stated in pertinent part, as follows:

Section 10 of the act of March 3, 1833, 47 Stat. 1516, provides—

Whenever by or under authority of law actual expenses for travel may be allowed to officers or employees of the United States, such allowances, in the case of travel

ordered after the date of enactment of this act, shall not exceed the lowest first-class rate by the transportation facility used in such travel.

Paragraph 13 (a) of the Standardized Government Travel Regulations provides—

(a) One standard lower berth for each person and lowest rate first-class state-room accommodations on steamers when same is not included in cost of passage ticket. If the accommodations are shared by the traveler, the fact should be stated in the expense account and he may be reimbursed only his proportionate share of the costs. (See paragraphs 13 (d), 95.)

The lowest first-class rate on railroads has been uniformly held to be the rate for one standard lower berth, and the act of 1933, *supra*, has been held to prohibit payment for a section or a drawing room for the use of one traveler. No reason appears why a traveler on a steamship should be allowed the exclusive use of a stateroom containing two or more berths. The reference to "first-class stateroom accommodation" in the Standardized Travel Regulations is to be understood to mean the lowest first-class accommodation in a stateroom which would be the rate for one lower berth. As the use of the transportation request in this case for the exclusive use of a stateroom will require the Government to pay the transportation company the rate for the stateroom instead of the rate for one lower berth, the excess cost should have been deducted from the amount of this voucher before payment to the traveler.

COMPUTATION OF MILEAGE

The Navy Department recently presented to the General Accounting Office for approval the following statements showing methods of computation of mileage for use of personally owned automobiles used in official travel when an employee goes direct from his domicile to the place where the inspection is to be made without first reporting to his headquarters:

When the employee's domicile is located within the corporate limits of the official-duty station, payment of mileage is authorized only from the corporate limits involved via the shortest route from the domicile to the place of inspection and return, but not to exceed the distance from the corporate limits of the official-duty station, based on the shortest route from the employee's headquarters to the place of inspection and return.

When the employee's domicile is located outside the corporate limits of the official-duty station, payment of mileage is authorized via the shortest route from the domicile to place of inspection, exclusive of any distance within the corporate limits of the official-duty station, but not to exceed the distance from the corporate limits of the official-duty station, based on the shortest route from the employee's headquarters to place of inspection and return.

The Acting Comptroller General of the United States replied to the communication as follows:

This office will not be required to object to the computation and payment of mileage in accordance with the regulations proposed in the last two paragraphs of your letter if otherwise correct and proper.

Therefore, if an employee in claiming mileage for use of his personally owned automobile while traveling on official business shows departure from or arrival at his domicile rather than his official headquarters, it will be necessary that he present evidence in his voucher that the cost to the Government was not increased thereby.

PURCHASE OF PASSENGER-CARRYING VEHICLES

Budget and Finance Circular No. 68, dated March 2, 1938, is quoted hereunder for the guidance of all station officials:

The Acting Comptroller General of the United States in decision of February 14, 1938, A-92040, relative to the disallowance of an item of \$7.32, representing a part of the purchase price of a certain automobile heater, stated in pertinent part, as follows:

The heater in question was purchased December 26, 1935, under a general supply contract for the fiscal year 1936, order 178730-38, dated January 10, 1936, at a price of \$7.82, for use in a Graham-Paige automobile originally costing \$749.50 (purchase order W-106-F, dated September 4, 1935). The reason for the disallowance was that the item \$7.82, plus the original cost of the automobile, would exceed by \$7.32 the maximum limitation of \$750 fixed by section 3 of the act of May 14, 1935, 49 Stat. 243, for a passenger-carrying vehicle completely equipped for operation.

* * * * *

The words in the statute, "completely equipped for operation", clearly include, within the cost limitation of \$750, the original cost of the car as well as of all equipment or accessories, standard or otherwise, intended for use in connection with the operation of the car and regardless of whether for comfort, safety, or other purpose.

Accordingly, the purchase of heaters or other equipment to be installed on passenger-carrying vehicles not previously equipped with such is not authorized when the cost thereof, together with the original cost of the car and equipment previously installed thereon, exceeds \$750.

* * * there should be adopted such administrative safeguards as will prevent further purchases of automobile equipment in contravention of the statutory limitation in question.

Immediate steps should be taken to see that the requirements of the decision are met.

This circular does not supplement any specific regulation of the Regulations of the Department.

EIGHT-HOUR LAW

The Department has advised this office that, until further notice, all specifications in connection with proposals for construction or repair (on public works), *without limitation as to cost*, must have inserted therein a clause reading as follows:

Eight-hour law.—No laborer or mechanic doing any part of the work contemplated by this contract, in the employ of the contractor or any subcontractor contracting for any part of said work contemplated, shall be required or permitted to work more than 8 hours in any one calendar day upon such work at the site thereof. For each violation of the requirements of this article a penalty of \$5.00 shall be imposed upon the contractor for each laborer or mechanic for every calendar day in which such employee is required or permitted to labor more than 8 hours upon said work, and all penalties thus imposed shall be withheld for the use and benefit of the Government; *Provided*, That this stipulation shall be subject in all respects to the exceptions and provisions of U. S. Code, title 40, sections 321, 324, 325, and 326, relating to hours of labor.

All specifications covering construction or repair (on public works) must contain the above-quoted 8-hour-law clause, regardless of the cost involved. If the construction or repair job is not covered by *written* specifications, the Purchase Requisition must contain a statement that the contractor agrees to the provisions in the 8-hour law. Each voucher

for construction or repair of public works (or certified bill, if the voucher is not signed in the first certificate) must carry a statement that the contractor (and subcontractor, if any) has complied with the provisions of the 8-hour law. This applies to all construction or repair of public works whether authorized by Purchase Order, letter of authorization, or circular in the same way as do the provisions of the "kick-back" law. (See Chief, Business Administration Circular Letter, dated June 18, 1937.)

RETURN OF CABLE REELS TO CONTRACTOR

The Central Office has placed approximately 75 orders with the Home Lighting Company of Baltimore, Md., for cable, f. o. b. Brooklyn, N. Y., since the first of the calendar year, to be used for the installation of ceiling-light projectors. The cable, in a majority of cases, was shipped on a reel that is to be returned to the contractor on a Government bill of lading furnished for that purpose, within a period of 6 months, as noted on the certificate of inspection. Supervising officials must take action to have the reel returned as per the instructions on the inspection certificate. The Government does not intend the purchase of the reel, therefore it should be returned as soon as possible.

CORRECTED ADDRESS FOR RETURN OF EMPTY CABLE REELS

On April 6, 1938, a circular letter relative to the return of empty cable reels was mailed to all supervising stations having requested cable for ceiling-light-projector installation and where the Purchase Order number began with 1751-W, or above. The letter contained a correction in the return shipping address for the empty cable reels. Any station whose Purchase Order number was prior to 1751-W is not affected by the change.

In a few instances the Certificate of Inspection and the bill of lading for return of the reel were sent direct to point of use, and the supervising station is requested to see that the instructions in the circular letter are complied with.

Any station concerned failing to receive a copy of this circular should notify the Central Office immediately.

PURCHASE OF CEMENT

The Director of Procurement will undertake to enter into contracts for portland cement required by all Federal activities for both departmental and field services, as well as cement necessary for construction contracts where the use of cement purchased under the Federal contract will result in economies to the Government. These contracts will become effective late in April.

Cement may be purchased as required for immediate use until further advised, but every such purchase must be reported to the Central Office

in detail for transmission to the Director of Procurement, Treasury Department. This report will show the quantity, date of each purchase, name and location of contractor, price paid (stating whether f. o. b. mill, warehouse, or destination), point of delivery, and, if delivery is other than point where cement is to be used, both point of delivery and point of use. Officials in charge of stations are requested to render the report in triplicate to the Central Office promptly in all cases where purchase is made under letter of authorization or circular. No report is required for quantities less than one bag (approximately 94 pounds).

NOTICE TO BIDDERS

A copy of circular letter, headed "Notice to Bidders Regarding Federal, State, or Local Taxes in Connection with Proposals for Articles, Materials, Supplies, or Equipment", was mailed to all first-order and airport stations on March 29, 1938. Any station not receiving a copy should notify the Central Office immediately.

MARKING AUTOMOBILE TRUCKS

Attention is called to paragraph 1834 of the Department Regulations governing the marking of Government-owned vehicles. It will be noted that Department trucks must be marked with a shield not less than 10 by 10 inches in size. Shields have already been furnished to all stations having trucks. Special attention is drawn to the size to be used and the immediate marking of the trucks as specified in the regulations.

REOPENING OF THE TACOMA STATION

The first-order station at Tacoma, Wash., which was closed in August 1933, was reopened on April 1, 1938. The office is located in the Fidelity Building, 949 Broadway, and the station is in charge of Mr. Fred Myers, formerly in charge of the Tatoosh Island, Wash., station.

MAXIMUM THERMOMETERS WITH BROKEN CONSTRICTIONS

A maximum thermometer in which the constriction has been broken is considered to be a broken thermometer. Such breaks are apparent in the form of iridescent colors when examined in a strong light, and are caused mostly by a too violent throw-down of the mercury column. Such thermometers need not be retained to be passed upon by the inspector, as stated on page 7 of the January 1938 issue of TOPICS AND PERSONNEL.

REQUISITIONS PERTAINING TO MAINTENANCE AND REPAIR OF EQUIPMENT

Owing to the fact that funds for the purpose have been depleted, it will be impracticable to give favorable consideration to Purchase Requisitions, except in emergencies, for expenditures associated with maintenance and repair of equipment used in general weather and storm-warning service during the remainder of the present fiscal year.

STATION TO BE OPENED AT THUNDER BAY ISLAND, MICH.

A cooperative wind and weather-reporting station will be opened at Thunder Bay Island, C. G. S., Mich., under supervision of the Alpena office, on April 15, 1938. Observations from this station will be distributed through the SGL D&A system, the telegraphic designation, "Thunder Island", being used to identify the reports. The full name, Thunder Bay Island, will be used in all published reports and in radio broadcasts.

FIRST-ORDER STATION OPENED AT AIRPORT

A first-order Weather Bureau Office, primarily for airway service, was opened at the airport at Iowa City, Iowa, on March 12, 1938.

The personnel at this station will comprise one commissioned employee (official in charge) and three airway observers. The station will render 24-hour airway service.

SURPLUS PROPERTY

The surplus property listed on page 16 of February 1938 TOPICS AND PERSONNEL should have been listed at Galveston, Tex., instead of Houston, Tex. To date, all items have been transferred from Galveston, except the 85 map, or bulletin, frames.

CIRCULARS

One copy of circular entitled "Cloud Observations" and one or more of the circular "Payment of Substation Employees" were mailed to all regular and airport stations on March 17 and 21, 1938, respectively. Any station not receiving a copy or copies of each should notify the Central Office.

DEPARTMENT REGULATIONS

Copies of paragraph 1713, amendment 56, of Department Regulations, were mailed to all regular and airport stations on March 17, 1938. Any station not receiving a copy should notify the Central Office. A correction is herein noted for February 1938 TOPICS AND PERSONNEL in that paragraph 1552 should have been 1522. This latter is amendment 53 of Department Regulations.

STATION REGULATIONS

Amended pages of Station Regulations, numbers 38-2R, 39-2R, 40-2R, 40a-R, 42-R, and 49-R, were mailed to all regular and airport stations on March 17, 1938. Any station not receiving a copy of each should notify the Central Office.

RETIREMENT

Mr. Elbert C. Monkman, under observer at the Sault Ste. Marie, Mich., station, was retired at the termination of March 31, 1938, on

account of total disability. He was born at Sault Ste. Marie, Mich., on September 6, 1911. Mr. Monkman entered the Weather Bureau service as minor observer at Sault Ste. Marie, and his entire Government service has been at that place. Due to illness, he was on leave without pay from January 18, 1938, to the time of his retirement.

DEATH

Mr. Henry C. Howe, who was retired at the termination of June 30, 1932, died at his home in Parkersburg, W. Va., on March 7, 1938. An outline of his service and a notice of his retirement will be found in the June 1932 issue of TOPICS AND PERSONNEL.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of March 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Adamo, Joseph J.....	Syracuse, N. Y..... (Airport.)	Appointed junior observer at \$1,440.
Aman, Eugie F.....	Washington, D. C.....	Assistant messenger, Cu-2, at \$1,080, resigned; record, very good.
Andrus, Clarence G.....	Cleveland, Ohio..... (Airport.)	Meteorologist, promoted to \$4,000 from \$3,800.
Anthony, Milford E.....	Fresno, Calif.....	Appointed minor observer at \$1,020 by reinstatement in the Government service.
Baldwin, John L.....	Columbia, S. C.....	Junior meteorologist, promoted to \$2,100 from \$2,000.
Bartlett, Wayne H.....	Des Moines, Iowa.....	Promoted to under observer at \$1,200 from minor observer at \$1,080.
Bavendick, Frank J.....	Bismarck, N. Dak.....	Assistant meteorologist, promoted to \$2,800 from \$2,700.
Brady, James M.....	Albuquerque, N. Mex..	Junior meteorologist, promoted to \$2,200 from \$2,100.
Brickles, David E.....	Washington, D. C.....	Appointed assistant messenger, Cu-2, at \$1,080.
Burt, David A.....	Greensboro, N. C..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Cagle, Cecil.....	Montgomery, Ala..... (Maxwell Field)	Senior observer, promoted to \$2,200 from \$2,100.
Chapin, William C.....	Miles City, Mont.....	Junior meteorologist, promoted to \$2,200 from \$2,100.
Cline, Joseph L.....	Dallas, Tex.....	Associate meteorologist, promoted to \$3,300 from \$3,200.
Coffin, LeRoy A.....	Fairbanks, Alaska.....	Designation changed to junior meteorologist at \$2,000 from senior observer at the same salary.
Collier, James S.....	Rochester, N. Y.....	Promoted to junior observer at \$1,440 from minor observer at \$1,020.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Dailey, Richard B.	Hatteras, N. C.	Junior meteorologist, promoted to \$2,600 ¹ from \$2,500 ¹ .
DeMent, Harry C.	Parkersburg, W. Va.	Junior meteorologist, promoted to \$2,200 from \$2,100.
Devaney, James L.	Washington, D. C.	Promoted to messenger, Cu-3, at \$1,200 from assistant messenger, Cu-2, at \$1,080.
Dow, Milton W.	Burlington, Vt.	Assistant meteorologist, promoted to \$3,100 ² from \$3,000 ¹ .
Eichmeier, Albert H.	Huron, S. Dak. (Airport.)	Promoted to observer at \$1,800 from junior observer at \$1,620.
Edelblut, Theodore B.	Augusta, Ga.	Under observer at \$1,440, died November 25, 1937. Date changed from November 26, 1937, as given in November TOPICS AND PERSONNEL.
Eshleman, Cyrus H.	Cleveland, Ohio.	Junior meteorologist, promoted to \$2,400 from \$2,300.
Fisher, Elmer.	Portland, Oreg.	Junior meteorologist, promoted to \$2,200 from \$2,100.
Flocken, Fred B.	Iowa City, Iowa. (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Friedman, Herman.	Wichita, Kans.	Assistant observer, promoted to \$1,680 from \$1,620.
Fuller, Merton L.	Peoria, Ill.	Assistant meteorologist, promoted to \$2,800 ³ from \$2,700 ³ .
Gordon, James H.	Yuma, Ariz.	Junior meteorologist, promoted to \$2,600 ¹ from \$2,500 ¹ .
Grimes, George E.	Nantucket, Mass.	Junior meteorologist, promoted to \$2,600 ¹ from \$2,500 ¹ .
Grimes, Harry L.	Indianapolis, Ind.	Under observer, promoted to \$1,440 from \$1,380.
Hagarty, Joseph H.	Terre Haute, Ind.	Promoted to observer at \$1,800 from assistant observer at \$1,740.
Hargis, Jewel K.	Shreveport, La.	Under observer, promoted to \$1,380 from \$1,320.
Hedine, Leonard J. C. ...	Nome, Alaska.	Observer, salary readjusted to \$2,160 from \$2,160 ⁴ .
Hennessey, Harold J.* ..	Cambridge, Mass. (M. I. T.)	Appointed agent at \$125 per month, temporarily.
Heyer, Hobert E.	Canton, N. Y.	Junior meteorologist, promoted to \$2,600 ⁵ from \$2,500 ⁵ .
Hickmon, Walter C.	Fort Smith, Ark.	Assistant meteorologist, promoted to \$2,700 from \$2,600.
Higgs, Ralph L.	Miami, Fla.	Junior meteorologist, promoted to \$2,200 from \$2,100.
Holmes, Vern S.	Chicago, Ill. (Airport.)	Appointed junior observer at \$1,440.
Huff, James H.	Wilmington, N. C.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Jakl, Vincent E.	Chicago, Ill. (Airport.)	Meteorologist, promoted to \$4,000 from \$3,800.

* Indicates temporary appointment.

¹ Includes allowance of \$240 for quarters, fuel, and light.² Includes allowance of \$300 for quarters, fuel, and light.³ Includes allowance of \$200 for quarters, fuel, and light.⁴ Includes allowance of \$100 for quarters, fuel, and light.⁵ Includes allowance of \$340 for quarters, fuel, and light.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Jones, James M.	Eureka, Calif.	Junior meteorologist, promoted to \$2,400 from \$2,300.
Kearney, Robert E.	Devils Lake, N. Dak. ...	Junior meteorologist, promoted to \$2,600 ² from \$2,500 ² .
Larson, Edwin G.	Charles City, Iowa.	Junior meteorologist, promoted to \$2,600 ² from \$2,500 ² .
Leghorn, George R.	Fresno, Calif.	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Lockwood, Arthur C.	Columbus, Ohio.	Promoted to observer at \$1,800 from junior observer at \$1,740.
McClurg, Roy J.	Moorhead, Minn.	Junior meteorologist, promoted to \$2,200 from \$2,100.
Machen, Guy C. Jr.	Roswell, N. Mex.	Junior observer at \$1,440, suspension without pay revoked and resignation accepted with prejudice, effective at the termination of February 16, 1938.
Martin, William R.	Winslow, Ariz.	Appointed junior observer at \$1,440.
Matson, Norman A.	La Crosse, Wis.	Appointed junior observer at \$1,440.
Mireur, Thomas J.	Corpus Christi, Tex.	Minor observer, promoted to \$1,080 from \$1,020.
Moery, Otto E.	Terre Haute, Ind.	Assistant meteorologist, promoted to \$2,800 from \$2,700.
Monkman, Elbert C.	Sault Ste. Marie, Mich..	Under observer at \$1,260, leave without pay terminated, effective April 1, 1938, and retired.
Mott, Merton P.	Providence, R. I.	Under observer, promoted to \$1,380 from \$1,320.
Olson, Carl A.	St. Cloud, Minn. (Airport.)	Assistant observer, promoted to \$1,740 from \$1,620.
Osborn, Aloysius E.	Dodge City, Kans.	Junior meteorologist, promoted to \$2,300 from \$2,200.
Pugh, Horace L.	Vicksburg, Miss.	Junior meteorologist, promoted to \$2,400 from \$2,300.
Rahmlow, Herbert W. ...	Sault Ste. Marie, Mich..	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Rice, Marcus A.	Reno, Nev.	Junior meteorologist, promoted to \$2,200 from \$2,100.
Rosenfeld, Abraham.	Boston, Mass.	Junior observer at \$1,440, probationary appointment terminated; record, unsatisfactory.
Seamon, Lilburn H.	Dayton, Ohio.	Appointed junior observer at \$1,440.
Segal, Stanley M.	Washington, D. C.	Appointed junior scientific aid, SP-3, at \$1,440 by transfer from the Bureau of Animal Industry.
Shilling, Alphonso W.	North Platte, Nebr.	Assistant meteorologist, promoted to \$2,900 ¹ from \$2,800 ¹ .
Shipman, Truman G.	Davenport, Iowa.	Associate meteorologist, promoted to \$3,300 from \$3,200.

¹ Includes allowance of \$240 for quarters, fuel, and light.² Includes allowance of \$340 for quarters, fuel, and light.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Stephens, Gilley T.....	Knoxville, Tenn.....	Promoted to junior observer at \$1,440 from under observer at \$1,020.
Timberman, Clarence W..	Davenport, Iowa.....	Appointed minor observer at \$1,020 by reinstatement in the Government service.
Trexler, Tony B.....	San Francisco, Calif....	Junior meteorologist, promoted to \$2,200 from \$2,100.
Trolle-Steenstrup, Frank H.	Trenton, N. J.....	Junior meteorologist, promoted to \$2,300 from \$2,200.
Ulsh, W. Howard.....	New York, N. Y..... (Mitchel Field)	Promoted to senior observer at \$2,000 from assistant observer at \$1,800.
Vaughan, Lloyd D.....	Valentine, Nebr.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Walton, Leon C.....	San Diego, Calif.....	Observer, promoted to \$1,920 from \$1,860.
Weck, Fred H.....	Duluth, Minn.....	Associate meteorologist, promoted to \$3,300 ^a from \$3,200 ^a .
Wells, Roy A.....	Redding, Calif.....	Assistant meteorologist, promoted to \$2,900 from \$2,800.
Whittier, Bernard B....	Fort Wayne, Ind.....	Assistant meteorologist, promoted to \$2,800 from \$2,700.

^aIncludes allowance of \$400 for quarters, fuel, and light.*Changes in assignments*

Name	Relieved from—	Assigned to—
Flocken, Fred B.....	Jacksonville, Fla..... (Airport.)	Iowa City, Iowa (Airport), in charge.
Grover, George M.....	Pocatello, Idaho.....	Missoula, Mont., assistant.
Hagarty, Joseph H.....	Wilmington, N. C.....	Terre Haute, Ind., assistant.
Hill, Robert G.....	Missoula, Mont.....	Pocatello, Idaho, assistant.
Lichtblau, Stephen.....	Salt Lake City, Utah... (Airport.)	Portland, Oreg. (Airport), assistant.
Malkin, Louis.....	St. Cloud, Minn..... (Airport.)	Washington, D. C., assistant.
Olson, Carl A.....	Sault Ste. Marie, Mich..	St. Cloud, Minn. (Airport), in charge.
Rahmlow, Herbert W...	La Crosse, Wis.....	Sault Ste. Marie, Mich., assistant.
Ulsh, W. Howard.....	Fort Wayne, Ind.....	Mitchel Field, N. Y. (Hempstead, L. I.), in charge.
Vaughan, Lloyd D.....	Columbus, Ohio.....	Valentine, Nebr., in charge.



WEATHER BUREAU TOPICS AND PERSONNEL

APRIL 1938

WEATHER BUREAU CORRESPONDENCE FILES

Attention is invited to the need of two additional classification numbers in the "Weather Bureau Correspondence Files" pamphlet.

Station officials are, therefore, requested to add to their copy of the pamphlet the following subject numbers:

Page 8: 010.9 Projects, uniform systems.

Page 11: 116 Safety program.

STATION ADMINISTRATION POLICY

The authority to conduct correspondence at airport stations, as set forth in TOPICS AND PERSONNEL for March 1937, page 361, is hereby enlarged to permit officials in charge of airport stations to independently conduct *all* correspondence necessary to station administration, whether or not of a routine nature. Other provisions in the article referred to remain unchanged.

Hereafter all officials in charge of airport stations are authorized and directed to assume property accountability and to submit requisitions, vouchers (qualified as below in regard to pay-roll vouchers), and other customary office papers direct to the Central Office. They may also *certify* and submit station pay rolls under special circumstances, but, ordinarily, city officials will prepare and certify combined city and airport pay rolls. This arrangement is preferred. Authority to approve pay rolls for payment by regional disbursing officers requires the approval of the Secretary, and it is not the policy of the Central Office to secure such approval for more than one official and an alternate in the same city.

All vouchers, wherever originating, must indicate, after the words "Voucher prepared at . . .", the name of the station *and* either the word "city" or the word "airport" in parentheses, thus—

Voucher prepared at Atlanta, Ga. (Airport).

Voucher prepared at Chicago, Ill. (City).

In all cases, except where the post office is not the same as the name of the station, correspondence will be addressed "Weather Bureau Office" (for city office) and "Weather Bureau Airport Station" (for airport office), followed by the name of the station. Station officials are requested to arrange with postmasters, where necessary, to see that mail addressed in the prescribed, uniform manner is forwarded to the proper destination. (See paragraph 136, Station Regulations.)

STAGGERING OF HOURS OF DUTY

A copy of circular dated December 18, 1937, entitled "Staggering of Hours of Duty", was sent to each field station of the Bureau. The instructions contained in this circular, effective as of January 1, 1938, supersede the instructions contained in the article appearing in TOPICS AND PERSONNEL for June 1936 entitled "Hours of Duty per Day and per Week", insofar as there may be conflict. Any station that has not received a copy of the circular should notify the Central Office.

The object of issuing the staggering-of-hours-of-duty regulations was for the purpose of enabling stations to operate with greater flexibility and more efficiently, and, with this end in view, it is essential that all stations follow the provisions of the circular referred to.

Recent reports have come to us through inspectors and others that at a few stations the staggering-of-hours system has not been followed and/or that assignment of schedules of duty have not been made and time sheets recording the number of hours of duty performed by each employee are not being properly kept.

Station officials are reminded that the instructions contained in the circular are intended for all field stations and that it is essential that the record of hours of duty performed be kept current and in proper form so that there can be no question as to the amount of service rendered by individual employees.

Special attention is invited to the fact that Sundays and holidays will be treated in the attendance record just like any other days of the week, that is, if an employee is scheduled to work on those days, the number of hours scheduled is counted in totaling the hours of service for the pay period and must be covered either by actual service or by leave. If he is not scheduled to work on those days, it may be necessary to work more than 7 hours on some days in order to get in the required number of hours for the pay period.

In computing hours of service it will be understood that the quarter (January-March, April-June, July-September, October-December) is a unit and the employee must always have accumulated actual service or leave, or both, to his credit of not less than $84\frac{1}{2}$ hours for the first pay period, 169 hours at the end of the second pay period, $253\frac{1}{2}$ at the end of the third, 338 at the end of the fourth, $422\frac{1}{2}$ at the end of the fifth, and 507 at the end of the sixth. Then he will begin all over at the beginning of the second quarter—this procedure to be followed throughout the year. Station Regulations are being amended accordingly.

PER DIEM WHILE ON SHIPBOARD

The following memorandum, dated April 25, 1938, from the Secretary of Agriculture is given for the information of all Weather Bureau personnel:

Paragraph 47 of the Standardized Travel Regulations, as amended, approved by the President on January 30, 1934, and December 10, 1935, provides, as follows:

On vessels.—On vessels where the price of passage includes meals, per diem in lieu of subsistence on shipboard will be allowed if specifically authorized. (Gratuities to Government employees will not be allowed.)

As the rates of the per diem in lieu of actual expenses for subsistence authorized by law represent the maximum rather than the minimum allowable, it is the responsibility of the heads of the Departments and establishments to see that travel orders authorize only such per-diem rates as are justified by the nature of the travel. Accordingly, in order to secure uniformity in Department policy, it has been administratively determined that \$3 per day is the maximum amount which may be allowed an employee of the Department as per diem in lieu of subsistence while on shipboard where the price of passage includes meals. Careful consideration should be given the facts in each case as to the allowance to be authorized, if any, within this limitation.

MINOR AND UNDER OBSERVERS APPOINTED FROM JUNIOR OBSERVER REGISTER

The Central Office does not have a complete record of minor and under observers now in the service who have been appointed since May 1937 from the junior observer register. In order that consideration may be given to the promotion of these lower-grade employees to junior observer vacancies, after the probationary period has been completed and when appropriate openings occur, it is requested that the Central Office be advised of the names of minor and under observers now on duty who were appointed from the junior observer register. If possible, the rating made in the junior observer examination should be given.

SEPARATION DATE OF UNSATISFACTORY PROBATIONARY EMPLOYEES

Personnel Circular No. 58, from the Acting Director of Personnel, is given hereunder for the information of Weather Bureau personnel:

The Civil Service Commission has ruled that the name of a probationary employee who is to be separated because of unsatisfactory service may be retained on the rolls after the end of his probationary period merely for the purpose of paying him for accrued, unused annual leave. However, every effort should be made before the expiration of the probationary period of appointment to reach a conclusion as to the qualifications for retention of a probationer in order that he need not be retained in the service beyond the probationary period for the purpose of granting accrued leave after it is determined that his service does not merit permanent appointment.

In the event it is necessary to carry an employee on the rolls beyond the end of his probationary period for the purpose of paying him for accrued, unused annual leave, notice should be given to the probationary employee and a recommendation for the termination of his appointment should be submitted to the Office of the Secretary for approval in advance of the expiration date of the probationary period of employment.

If this is done the Commission says that an employee shall not attain permanent status merely because he is kept on the pay roll beyond the end of the probationary period in order to grant him annual leave under the Executive order of July 9, 1936. The employee, in any event, should not be permitted to resign following the expiration of the leave period. He should be dropped from the service in the same manner as any other probationer whose services are found to be unsatisfactory.

In this connection attention is invited to Personnel Circular No. 32, which provides that final determination as to whether an employee shall be granted accumu-

lated and current, accrued annual leave in each case of separation involving delinquency or misconduct will be made by the Director of Personnel, and that Bureau officials shall not grant any annual leave until such determination has been made. The provisions of Personnel Circular No. 32 are applicable in cases of separation of probationary employees because of delinquency or misconduct.

In connection with the above, see item in TOPICS AND PERSONNEL for October 1936, page 304.

SEPARATION DATE OF SATISFACTORY PROBATIONARY EMPLOYEES

Personnel Circular No. 60, from the Director of Personnel, is given hereunder for the information of Weather Bureau personnel:

On September 8, 1937, this office issued Personnel Circular No. 53, to the effect that the separation date of probationary employees whose services have not been satisfactory may be fixed to permit payment for accrued, unused annual leave.

The Civil Service Commission has recently considered the parallel question of the status of probationers whose services were satisfactory, who were carried merely for leave purposes beyond the end of the probationary period, and who during their probationary period were dropped from active duty on account of reduction of force. The specific point for consideration was whether they were, for retention purposes, in competition with other probationers or with permanent employees on the same kind of work, these being considered separate groups, in reduction-of-force programs.

The Commission has decided that termination of the active-duty status of a satisfactory probationer during the probationary period on account of reduction of force, with proper notification to the probationer that he will be dropped at the end of his accrued leave, which extends beyond the end of the probationary period, does not constitute "retention in the service" within the meaning of paragraph (c), section 1, of civil-service rule VII. Consequently, such a probationer does not acquire a permanent civil-service status, and for retention purposes, in the event of reduction of force, he is in competition only with other probationers on the same kind of work. He is, of course, ordinarily eligible for reemployment in other agencies under the "Reemployment List Regulations", or under paragraph (e), section 1, of civil-service rule IX.

Except where sudden and unanticipated circumstances prevent, reduction-of-force programs should be planned sufficiently ahead and employees given sufficient advance notice so that any probationers who are to be dropped will not need to be continued for leave purposes beyond their probationary period.

JUSTIFICATION NECESSARY FOR EXCUSING EMPLOYEES ON HOLIDAYS

Personnel Circular No. 63, from the Director of Personnel, is given herewith for the information of all Weather Bureau personnel:

On December 6, 1937, this office issued Personnel Circular No. 56 with respect to the excusing of employees from duty on local, State, and territorial holidays in the United States and insular possessions and on national holidays of foreign countries. This circular was issued following a decision of the Acting Comptroller General of October 4, 1937 (A-88929).

The authorization given in Personnel Circular No. 56 was intentionally prepared in general terms in order to permit responsible supervisors to exercise intelligent judgment, but it is apparent that in several instances a more circumscribed definition is necessary.

An examination of the reports submitted by the Bureaus, in accordance with paragraph 4 of Personnel Circular No. 56, indicates the existence of serious mis-

interpretations of the authorization for the excusing of the employees from duty on holidays "when Federal work may not be properly performed". For example, one Bureau reported that employees at a field station were excused from duty because the mayor of the town proclaimed a local holiday due to the opening of the racing season. Another Bureau reported that certain offices were closed in various States because the Governors of those States declared local holidays on Armistice Day, November 11, 1937. Another report came in that employees were excused from duty on March 9, 1938, because of a parade in observance of Mother-in-Law Day. In cases like these no showing was given as to why Federal work could not be properly performed.

Unless local celebrations or observances of holidays involve the closing of buildings occupied by Department organizations, or the withdrawal of other facilities essential to the performance of official work, such occasions do not constitute acceptable justification for the excusing of the personnel.

U. S. EMPLOYEES' COMPENSATION COMMISSION FORMS

When reporting injuries which occur in performance of duty, officials in charge are requested to furnish all C.A. forms in duplicate. This means not only Form C.A. 1, but all C.A. forms furnished subsequently in connection with the case. The original is forwarded to the Commission and the copy is retained for the Central Office files.

This article, which appeared in the April 1937 issue of TOPICS AND PERSONNEL, is being repeated because of the fact that frequently only one copy of the form is received. This necessitates a request for an additional copy. It is imperative that all C.A. forms be furnished in duplicate.

TRANSMISSION OF TELEGRAPH AND RADIO MESSAGES

Circular No. 14, from the Chief, Division of Operation, is given hereunder for the information of Weather Bureau Personnel:

The commercial telegraph and radio companies for transmission of messages between points within the United States have changed their regulations with regard to word count and the use of punctuation marks, as follows:

Groups of figures, and ordinal numbers composed of figures and any of the affixes—st, d, nd, rd, and th—will be counted at the rate of five characters, or fraction thereof, as one word.

A fraction bar, period or decimal point, comma, colon, dash or hyphen appearing in a group of figures will be counted as a figure.

In groups consisting of figures and letters, other than ordinal numbers, each uninterrupted sequence of letters and each uninterrupted sequence of figures will be counted at the rate of one word for every five characters or less, ie, 38d634521ad (38 d 63452 1 ad) would be counted as five words and 21f3 (21 f 3) would be counted as three words.

The following punctuation marks, when employed by the sender as such in the text of the message, will be transmitted as written by the sender, but will not be counted or charged for: The comma, the period, the colon, the semicolon, the dash or hyphen, quotation marks, parentheses, the question mark, the apostrophe. The word "stop" and words designating punctuation marks, such as the word "comma", "period", "paragraph", etc., will be counted and charged for.

Messages written in paragraphs will be transmitted in paragraphs as written by the sender, but the paragraphing and the paragraph signal transmitted to indicate paragraphing will not be counted or charged for.

Department Regulations are being amended in accordance with the above information.

PREVENTABILITY OF ACCIDENTS

Personnel Circular No. 61, from the Director of Personnel, is given hereunder for the information of Weather Bureau personnel:

During the last 6 months of 1937 82 fatalities occurred on Department projects and activities. These deaths were distributed as follows: Thirty-five appointed personnel, 29 Civilian Conservation Corps enrollees, and 18 Works Progress Administration workers. Approximately 32 percent of these fatalities were caused by vehicle accidents.

In connection with this report, the Secretary sent me the following memorandum which is self-explanatory and which deserves your careful consideration:

"I have just gone over the report of the Division of Safety of your office which shows that for the last 6 months of 1937 a total of 82 persons lost their lives as a result of accidents on Department projects. This is very disturbing news.

"Certainly, most if not all of these accidents were preventable. The safety program in the Department must be aggressively pushed. I hope that every Bureau chief will take a personal interest in this matter and take steps which will contribute to advancing rapidly and effectively the safety program.

"I note that a large number of the accidents are due to excessive speed of passenger cars and trucks. I am anxious that careful study be given to the possibility of independent action by the Department to reduce our vehicle hazards as soon as possible. Meantime, it is extremely important that there be departmental-wide cooperation in the matter of prompt and accurate reports of all accidents so that the special hazards attending departmental work can be analyzed and outstanding hazards brought to light, and action taken in the direction of reducing those hazards."

In order to carry out our safety program, it is essential that no opportunity be overlooked. I am anxious to receive any suggestions from Bureau executives which will contribute to advancing the safety program. Meantime, it is essential that supervisory personnel on projects involving any degree of hazard be repeatedly encouraged to reduce hazards in the interest of improving substantially the Department's accident record in this and coming years.

PROCEDURE FOR CLAIMS FOR DAMAGES TO GOVERNMENT PROPERTY

The following memorandum, dated April 9, 1938, from the Office of Budget and Finance, Department of Agriculture, is given for the information of Weather Bureau personnel:

Hereafter all claims for damages to Government property resulting solely from the negligence or misconduct of some one *other than* an employee of the Government should be sent by the Bureau concerned directly to the Office of the Solicitor for appropriate action.

This circular does not in any way modify the present procedure in regard to claims arising under the provisions of the act of December 28, 1922 (42 Stat. 1088), on account of damages to or loss of privately owned property caused by the negligence of any officer or employee of the Government acting within the scope of his employment, and the act of June 28, 1937 (50 Stat. 319), on account of damage to or loss of property, or on account of personal injury to certain persons caused by the negligence of any enrollee or employee of the Civilian Conservation Corps while acting within the scope of his employment.

This document supplements the instructions contained in Department Regulations No. 3162. Employees maintaining copies of the regulations should record this circular by an appropriate cross-reference notation in their regulations.

TRANS-ATLANTIC AVIATION CONFERENCE AT DUBLIN, IRELAND

A trans-Atlantic aviation conference was held in Dublin, Ireland, from March 22 to 24, 1938, inclusive, with representatives of the Governments of the United States, Canada, and Great Britain attending. Pan-American Airways and Imperial Airways were also represented. The conference was called by the Irish Government for the purpose of securing mutual agreement on a draft organization for communications service, control of aircraft, meteorological service, and emergency procedures in connection with the proposed continuation of experimental flights this summer between New York or Montreal; Botwood, Newfoundland; Foynes, Ireland, and Southampton, England.

Mr. Delbert M. Little, Chief of the Aerological Division, represented the Weather Bureau, and Mr. Edward L. Yuravich, Chief, Airline Inspection Service, Foreign Section, represented the Bureau of Air Commerce at the conference. Messrs. Little and Yuravich visited the Irish trans-Atlantic base at Foynes, Ireland, and the airports at Croyden, near London, and Le Bourget, in Paris. They also visited the Office Nationale Météorologique in Paris, the meteorological laboratory near Trappes, France, and the meteorological ship *Carimarté* before returning to the United States.

CONTRACTS FOR CONTINUING SERVICES

Station officials are reminded of the necessity for obtaining contracts for the fiscal year 1939 for continuing services such as laundry, janitor and messenger service, drayage, telephone, gas, electricity, water, and ice. The contracts should be forwarded to the Central Office not later than June 15, 1938.

Detailed instructions in connection with the preparation of the agreements are given in an article under the above heading in the April 1937 number of TOPICS AND PERSONNEL, supplemented by circular letter dated June 15, 1937, relative to contracts for interstate drayage.

The Central Office has not received advice as to consolidated contracts for drayage service. It is suggested that officials in charge of stations in cities in which such contracts were executed by the Procurement Division for the current fiscal year consult with representatives of the Federal Business Association relative thereto before executing contracts for drayage.

SURPLUS STOVE

A stove, described below, is surplus at the Weather Bureau Office at Marshall, Mo., and available for transfer to any station having need for it.

Montgomery Ward Dictator Windsor Heater, No. B-100-7; grained walnut enamel finish; size, 48 by 23 by 23 inches over all; circular fire box, 14 inches in diameter, 12 inches deep; coal-burning, downdraft control; good condition, except for broken stop on one grate cog, No. 68-41 (as listed on chart for heater parts).

DISCONTINUANCE OF SGL D&A REPORTS

SGL D&A reports from Navasota, Tex., and Rumford, Maine, will be discontinued on May 1, 1938, and reports from Delta, Utah, were discontinued on April 7, 1938. The p. m. SGL D&A reports from Great Falls, Mont., were discontinued at the termination of April 17, 1938, but the a. m. reports will continue to be filed for several weeks.

Code-sequence reports from Navasota, Delta, and Great Falls are transmitted over all Bureau of Air Commerce teletype circuits. Reports from Rumford are included in "A" group transmissions made by teletype from Chicago four times daily.

CHANGE IN ORIENTATION OF NEPHOSCOPES

In Circular I, "Instructions for Erecting and Using Weather Bureau Nephoscope (1919 pattern)", page 5, section 3, it is directed that the graduated scale on the mirror frame should be toward true north, the 90° mark toward east, the 180° mark toward south, and the 270° mark toward west. On page 9 of the same circular there appears a table for converting angular values into 8-point and 16-point compass directions. It will be noted that in this table a cloud moving *from* north leaves the mirror in the arc centering at 180°, hence 180° is taken as the direction *from which* the cloud moves.

On January 1, 1932, the Weather Bureau began using zero as true north in pilot-balloon observations. This change was authorized in circular of November 25, 1931, "Changes in the Method of Recording Azimuth Angles in Pilot Balloon Observations". In International meteorological practice, angular directions are measured from zero as true north.

It is, therefore, directed that, on and after July 1, 1938, at stations where nephoscopes of the 1919 pattern are used, the mirrors be oriented with zero as *south* so that the cloud images will leave the mirror at graduations corresponding to angular directions with zero as true north, measured clockwise.

The following table contains data for conversion of angular values to 8-point and 16-point values, with zero of the mirror set on true south. Circular I, pages 5 and 9, will be corrected to conform.

8-point system				16-point system			
Cloud moving from	Image leaves mirror	Cloud moving from	Image leaves mirror	Cloud moving from	Image leaves mirror	Cloud moving from	Image leaves mirror
N.	338 to 22	S.	158 to 202	N.	340 to 11	S.	160 to 191
NE.	22 to 68	SW.	202 to 248	NNE.	11 to 34	SSW.	191 to 214
				NE.	34 to 56	SW.	214 to 236
				ENE.	56 to 79	WSW.	236 to 259
E.	68 to 112	W.	248 to 292	E.	79 to 101	W.	259 to 281
				ESE.	101 to 124	WNW.	281 to 304
SE.	112 to 158	NW.	292 to 338	SE.	124 to 146	NW.	304 to 326
				SSE.	146 to 169	NNW.	326 to 349

FIELD PURCHASES OF ELECTRIC-LAMP BULBS

Hereafter no electric lamps (bulbs) will be purchased locally without prior authority from the Central Office unless the requirement is an extreme emergency and the urgent need is explained in a statement, in duplicate, attached to the voucher. Some types are carried in the Central Office stock and others are under Procurement Division contract at material savings over local prices. Purchase Requisitions, with column prices left blank, or Stores Requisitions should be submitted for lamps. In this connection attention is called to previous articles in TOPICS AND PERSONNEL of September 1929, page 469; October 1929, page 480; July 1984, page 45, and September 1935, page 175.

DIRECTORY OF ORGANIZATION AND FIELD ACTIVITIES

Copies of Miscellaneous Publication No. 304, "Directory of Organization and Field Activities of the Department of Agriculture", were mailed to all regular and airport stations on April 20, 1938. Any station not receiving a copy should notify the Central Office. That part of this publication pertaining to the Weather Bureau was compiled as of September 1, 1937, and since that time a number of changes have taken place. A few errors have been called to our attention. The publication will be checked carefully and corrections made in the next printing.

REPORT ON OUTSIDE WORK

A circular, "Report on Outside Work", dated April 20, 1938, was mailed to all regular and airport stations on April 20, 1938. Any station not receiving a copy should notify the Central Office.

FEDERAL BUSINESS ASSOCIATIONS

Weather Bureau officials have been elected or appointed to office in Federal Business Associations as follows:

Mr. J. Cecil Alter, Salt Lake City, Utah, elected member of the executive committee of the Western States Snow Survey Conference.

DEPARTMENT REGULATIONS

Copies of paragraph 3142, amendment No. 57, to Department Regulations were mailed to all regular and airport stations on April 6, 1938. Any station not receiving a copy should notify the Central Office.

EXECUTIVE ORDERS FOR ANNUAL AND SICK LEAVE

Executive Orders Nos. 7845 and 7846, dated March 21, 1938, regulations governing annual and sick leave, respectively, were mailed to all regular and airport stations on April 6, 1938. Any station not receiving a copy should notify the Central Office.

R. Vickers

FIRST-ORDER STATION OPENED AT AIRPORT

A first-order Weather Bureau Office, primarily for airway service, was opened at the airport at Long Beach, Calif., on April 12, 1938.

The personnel at this station will comprise one commissioned employee (official in charge) and three airway observers. The station will render 24-hour weather-reporting service.

REQUESTS FOR RUBBER STAMPS

Stations requesting rubber stamps must submit their requests in accordance with Station Regulations, paragraph 112, using the following form in preparing the duplicate list, on plain paper:

Number required	Reading matter	Size and style of type
2	WEATHER BUREAU	(Indicate in this column the size and style of type desired for the stamps listed under "Reading Matter").

PURCHASE OF PRISON-MADE PRODUCTS

A circular letter, "Purchase of Products Manufactured in Federal Prison Industries", was mailed April 18, 1938, to all regular and airport stations. Any station not receiving a copy should notify the Central Office immediately.

PREFERENCE CARDS

Preference cards, Form 4047, should be rendered on June 1 by all permanent employees. Only one copy of the card is desired from each regular employee.

MIMEOTYPE SUGGESTIONS

A field employee recently discovered that correction fluid that thickens, after a few weeks use, may be successfully thinned by the addition of denatured alcohol. It was also found that unused mimeotype sheets that have been accidentally spoiled may be soaked in alcohol to remove the coating.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of April 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

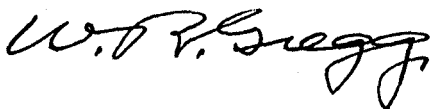
Name	Station	Remarks
Arnold, Abraham.....	Philadelphia, Pa.	Junior observer at \$1,440, name changed on rolls from Abraham Yanovsky.
Bolen, Charles E.....	Washington, D. C.....	Promoted to scientific aid, SP-5, at \$1,800 from assistant scientific aid, SP-4, at \$1,620.
Bray, J. Theodore.....	Washington, D. C.....	Promoted to senior scientific aid, SP-6, at \$2,000 from scientific aid, SP-5, at \$1,860, and with change of duties.
Caldwell, William D....	Washington, D. C.....	Appointed assistant messenger, Cu-2, at \$1,080.
Carlin, Albert V.....	Boston, Mass... .. (Airport.)	Appointed junior observer at \$1,440.
Cole, Harold B.....	Washington, D. C.....	Promoted to scientific aid, SP-5, at \$1,800 from assistant observer at \$1,680, with transfer from the field service to the departmental service.
Comstock, Charles R....	Chicago, Ill..... (Airport.)	Promotion and change in designation to junior meteorologist at \$2,100 from senior scientific aid, SP-6, at \$2,000, with transfer from the departmental to the field service.
Cornwall, Richard R....	Kansas City, Mo.	Junior observer at \$1,440, probationary appointment terminated because of physical disability.
Edelman, Bernard.....	Washington, D. C.....	Appointed messenger, Cu-3, at \$1,200 by transfer from the Agricultural Adjustment Administration.
Fitting, Frederick N....	Seattle, Wash.....	Appointed junior observer at \$1,440.
Henry, Henderson.....	Washington, D. C.....	Designation changed to minor mechanic, Cu-3, at \$1,260 from messenger, Cu-3, at the same salary.
Holland, Mrs. May S....	San Francisco, Calif....	Junior stenographer at \$1,560, resigned; record, excellent.
Hug, Floyd E.....	Long Beach, Calif..... (Airport.)	Assistant observer, promoted to \$1,680 from \$1,620.
Krumm, Wilbert R.....	San Francisco, Calif....	Promoted to observer at \$1,860 from scientific aid; SP-5, at \$1,800, with transfer from the departmental to the field service.
Malkin, Louis.....	Washington, D. C.....	Designation changed to assistant scientific aid, SP-4, at \$1,620 from assistant observer at the same salary, with transfer from the field to the departmental service.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Moynihan, Gerald F....	Roswell, N. Mex.....	Appointed junior observer at \$1,440.
Rigby, Malcolm.....	North Head, Wash.....	Junior meteorologist, salary readjusted to \$2,100 ¹ from \$2,100 (cash salary).
Rigby, Malcolm.....	North Head, Wash.....	Junior meteorologist, promoted to \$2,400 ¹ from \$2,100 ¹ .
Stapowich, Edward F....	Buffalo, N. Y..... (Airport.)	Designation changed to junior meteorologist at \$2,000 from senior observer at the same salary.
Sunseri, Nino.....	North Head, Wash.....	Junior meteorologist, salary readjusted to \$2,200 (cash salary) from \$2,200 ¹ .
Sunseri, Nino.....	Portland, Oreg.....	Junior meteorologist, reduced without prejudice from \$2,200 to \$2,100.
Walker, Robert C.....	Nashville, Tenn..... (Airport.)	Junior observer at \$1,440, leave without pay extended from April 21 to April 29, 1938, and restored to duty effective April 30, 1938.

¹Includes allowance of \$240 for quarters, fuel, and light.*Changes in assignments*

Name	Station	Remarks
Cole, Harold B.....	Chattanooga, Tenn.....	Washington, D. C., assistant.
Comstock, Charles R....	Washington, D. C.....	Chicago, Ill. (Airport), assistant.
Hamilton, Ray E.....	St. Louis, Mo..... (Airport.)	Nashville, Tenn., assistant.
Hug, Floyd E.....	Redding, Calif.....	Long Beach, Calif., in charge.
Kermis, Joseph R.....	Nashville, Tenn.....	St. Louis, Mo. (Airport), assistant.
Krumm, Wilbert R.....	San Francisco, Calif....	Mount Shasta, Calif., assistant.
Rigby, Malcolm.....	Spokane, Wash.....	North Head, Wash., in charge.
Swift, Harry L.....	Winslow, Ariz.....	Redding, Calif., assistant.
Sunseri, Nino.....	North Head, Wash.....	Portland, Oreg., assistant.



WEATHER BUREAU TOPICS AND PERSONNEL

MAY 1938

FILING INSTRUCTIONS

The attention of the Central Office has been called to the fact that some station officials are not filing correspondence in accordance with paragraph 139 of Station Regulations, or with instructions contained in the "Weather Bureau Correspondence Files" pamphlet, which states that all official correspondence must be given a number, indexed, and filed. Instructions for filing correspondence of a routine character will also be found in paragraph 139, Station Regulations.

Instructions for filing circulars, circular letters, printed instructions, and TOPICS AND PERSONNEL are clearly stated in paragraph 140, Station Regulations.

For the information of those who may be in doubt as to the definition of a "circular" and a "circular letter", the following is given:

A circular contains instructions which are considered of a permanent character and are issued from the office of the Chief of Bureau, while a circular letter contains instructions of a more or less temporary character and may be issued by the chiefs of the various divisions of the Central Office or by officials in charge of stations to stations under their supervision. Circular letters pertain, usually, to groups of stations to which the instructions therein apply.

AUTHORIZATIONS FOR MISCELLANEOUS EXPENSES INCURRED WHILE TRAVELING

Beginning July 1, 1938, travel authorizations (with the exception of those covering permanent transfers) will carry only such allotments of funds as are required for transportation and per diem in lieu of subsistence.

Other expenses incurred while in a travel status will be charged as follows:

1. Repairs and installations of instrumental equipment.
 - (a) General weather-service activities (except fire-weather), Circular 1, paragraph IV.
 - (b) Fire-weather activities, Circular 3, paragraph XIII.
 - (c) Aerological activities, Circular 7, paragraph IV.
2. Drayage service.
 - (a) General weather-service activities (except fire-weather), Circular 1, paragraph III.
 - (b) Fire-weather activities, Circular 3, paragraph XIII.
 - (c) Aerological activities, Circular 7, paragraph III.

3. Repairs and installations of river gages, Circular 2, paragraph VII.

4. Operation and maintenance of Weather Bureau trucks.

(a) Used in connection with fire-weather activities, Circular 3, paragraph XIII.

(b) Used in connection with other general weather service activities, Circular 1, paragraph I.

(c) Used in connection with aerological activities, Circular 7, paragraph I.

CLOUD FORMS ACCORDING TO INTERNATIONAL SYSTEM OF CLASSIFICATION

On and after January 1, 1939, cloud forms will be identified and recorded by Weather Bureau observers in accordance with the definitions and descriptions of the 10 cloud genera in the "International Atlas of Clouds and States of the Sky" (abridged edition, 1930; general edition, 1932). The third edition of "Cloud Forms", containing the revised international definitions and descriptions and a selection of photographs, will be distributed to all stations in the near future, so that employees who do not have access to the International Atlas will be provided with the essential information for cloud identification.

The principal change from the old international system which is now in effect in the Weather Bureau is the introduction of the name "nimbostratus". The name "nimbus" will be discontinued. This and other important modifications are described in the new edition of "Cloud Forms", which should be carefully studied when received at stations.

Abbreviations of cloud names in the International Atlas are of the form shown by the following examples: Cist., Aeu., Steu., and Cunb. In 1935 the International Meteorological Organization, in a meeting at Warsaw, adopted shorter abbreviations for the 10 genera, as follows:

Cirrus	Ci	Stratocumulus	Sc
Cirrocumulus	Cc	Stratus	St
Cirrostratus	Cs	Nimbostratus	Ns
Alto cumulus	Ac	Cumulus	Cu
Altostratus	As	Cumulonimbus	Cb

Beginning January 1, 1939, the Warsaw abbreviations will be used in recording cloud names on all record forms, maps (manuscript and printed), in publications, in transmission by teletype, and for every other official purpose requiring abbreviations of cloud names. In addition, the following, which were not included in the resolution of the Warsaw meeting, will also be used as abbreviations when required by instructions for preparing forms or transmission by teletype:

Alto cumulus castellatus	Acc	Cumulonimbus mammatus	
Fractostratus	Fs	(Mammato Cumulus)	Cm
Fractocumulus	Fc		

In recording clouds, observers will be guided by the instructions accompanying the forms, which will be revised to conform with the foregoing, effective January 1, 1939.

In reporting nimbostratus (or cumulonimbus) clouds in messages for transmission in the SGL D&A system and special messages, according to the Weather Code, 1936, code words for nimbus (beginning with CL or CR) will be used beginning January 1, 1939.

The international figure code provides one figure for reporting the predominant cloud form and three figures for "states of the sky", lower, middle, and upper, according to the cloud code classifications in the International Atlas. These code classifications will not be used by Weather Bureau observers until it becomes feasible to adopt the figure code in the SGL D&A system. However, a Weather Bureau publication containing the international cloud-code classifications and selected cloud illustrations is being prepared for issue to all stations in order that information necessary for identifying cloud forms and "states of the sky", in accordance with the International Code may be available at a later date when use of the figure code becomes feasible. A thorough study of this publication, when received, and of the International Atlas, if available, will be necessary because the basis of reporting lower, middle, and upper clouds is radically different from that employed by the Weather Bureau in the word code.

It will be noted that two Weather Bureau publications on clouds are being prepared for distribution. The first, "Cloud Forms" (3d edition), will contain the new international definitions and descriptions for use in identifying *cloud forms* on and after January 1, 1939. The second, "Codes for Cloud Forms and States of the Sky", will contain specifications and illustrations for coding cloud observations in accordance with the International Code, but will not be used in observational work until the figure code is adopted by the Weather Bureau.

INTERPRETATION OF PARAGRAPH 8 (b) OF STATION REGULATIONS

The Comptroller General has amplified his decision, which is referred to in an article under the above heading in the February 1937 number of TOPICS AND PERSONNEL in a new decision (No. A-92769), the syllabus of which reads as follows:

Whether the travel of employees of the Bureau of Air Commerce between temporary places of abode and airports at which engaged in the performance of temporary duty involves an expense incident to subsistence or to transportation is for determination upon the facts in each case, but, generally, if an airport is so situated with relation to the city it serves as to be reached within a reasonable time only by a special conveyance, as distinguished from a public conveyance, and there are no living accommodations for transients reasonably near the airport, the costs of daily travel to and from the airport while on temporary duty may be regarded as transportation expenses and reimbursed as such. (16 Comp. Gen. 562, amplified.)

Under that decision it will be necessary that employees who claim expenses for transportation between temporary places of abode and temporary places of duty at airports show the following in their reimbursement accounts: (1) That there are no living accommodations for transients reasonably near the airport, (2) the distance between the city and the airport, and (3) if travel is by taxicab, either that public conveyance

was not available or that use of public conveyance, if available, would not have been in the best interests of the Weather Bureau, giving reasons.

CLOUD-HEIGHT DATA FROM "DELAYED" PILOT-BALLOON OBSERVATIONS

To insure uniform procedure at pilot-balloon stations in the recording of cloud-height data, it is requested that all such data obtained from "delayed" (see circular dated July 26, 1937) pilot-balloon observations be treated exactly the same as those obtained from observations made on schedule. In the grouping of these data for the average-height summary on Form 1113 they are to be combined with those of the nearest scheduled time.

These instructions do not alter the instructions in circular dated August 1, 1934, to the effect that when a scheduled pilot-balloon observation is missed, due to low clouds, cloud heights measured at that time (i. e., within 1 hour before or after the scheduled time) by ceiling balloon or ceiling light are to be entered on Form 1113 and included in the average-height summary.

VOUCHERS COVERING FURNISHING OF WATER, GAS, ELECTRIC LIGHT, AND POWER

Paragraph 100 (e) of Station Regulations is hereby amended to read as follows:

(e) *Vouchers for expenses for the furnishing of water, gas, electric light, and power.*—The previous and last meter readings and dates thereof, with rates, must be shown on vouchers, or on bills attached thereto, covering the furnishing of water, gas, and electric light and power when the service is by meter, even though the minimum rate is charged. When *metered* service is billed on a split-month basis, expenses for June-July service will be charged wholly against appropriations and allotments for the new fiscal year beginning with July 1, in accordance with the provisions of Public, No. 57, 75th Cong., chap. 143, 1st sess., approved April 27, 1937, "An act to simplify accounting", which reads as follows:

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That hereafter, in making payments for commodities or services, the quantity of which is determined by metered readings, such as gas, electricity, water, steam, and the like, where the period covered by charge begins in one fiscal year or allotment period and ends in another, the entire amount of the payment may be regarded as a charge against the appropriation or allotment current at the end of such period.

USE OF NEPHOSCOPE AT FIELD STATIONS

In 1920 nephoscopes, 1919 pattern, were supplied to about 100 field stations of the Weather Bureau. They were furnished as an aid in making cloud observations, but the extent to which the instruments were to be used was left to the discretion of Weather Bureau officials. One of the principal reasons for issuing nephoscopes at that time was to secure information as to the *velocity* of cloud motion, because at that time there were insufficient pilot-balloon observations. However, the nepho-

scope is useful also in making accurate observations of *direction* of cloud motion, especially when slow.

Many of the nephoscopes issued in 1920 were put into use, but subsequently some were transferred to other stations and eventually nearly all were used only occasionally, or not at all. A considerable number were never set up.

As a further test of the value of the 1919 type for obtaining cloud directions (not velocity of motion), the regular use of nephoscopes, beginning July 1, 1938, has been directed at the following stations which were selected because the instruments are in serviceable condition, or can be readily put into service:

Abilene, Tex., Airport.	Havre, Mont.	Parkersburg, W. Va.
Atlantic City, N. J.	Helena, Mont.	Pensacola, Fla.
Baltimore, Md.	Indianapolis, Ind.	Peoria, Ill.
Binghamton, N. Y.	Juneau, Alaska.	Portland, Oreg.
Birmingham, Ala.	La Crosse, Wis.	Rapid City, S. Dak.
Boise, Idaho	Las Vegas, Nev.	St. Louis, Mo., Airport.
Buffalo, N. Y.	Macon, Ga.	San Antonio, Tex.
Burlington, Vt.	Memphis, Tenn.	San Diego, Calif., Airport.
Charlotte, N. C.	Mobile, Ala.	Santa Fe, N. Mex.
Denver, Colo., Airport.	Modena, Utah.	Spokane, Wash.
Duluth, Minn.	Nantucket, Mass.	Williston, N. Dak.
El Paso, Tex.	Nashville, Tenn., Airport.	Wilmington, N. C.
Escanaba, Mich.	Norfolk, Va.	Winnemucca, Nev.
Fairbanks, Alaska.	Oakland, Calif.	
Grand Junction, Colo.	Oklahoma City, Okla.	

CHANGING AND ENTERING DATA ON BAROGRAPH TRACES

In order to facilitate the extracting of 3-hourly pressure-change data from the end of one barograph trace and from the beginning of the succeeding trace, to insure the entry of correct times and barometric pressure data at the beginning and end of the traces, and for the convenience of observers, the following instructions regarding the change and entry of data on barograph sheets will become effective July 1, 1938:

1. At code-sequence and 6-hourly reporting stations, barograph traces will be changed, when necessary, at the time—or closely approximated thereto—of obtaining the 3-hourly pressure change.

2. At teletype stations adding 3-hourly pressure-change data to their record airway weather sequences, the barograph sheet will be changed, when necessary, at the time of the record observation for which the 3-hourly data are obtained.

3. The corrected station reading of the mercurial or aneroid barometer at the time of observation will be entered at the beginning and end of each trace when the sheet is removed from the barograph.

4. The exact time that the barograph pen is raised from each sheet, prior to removing it from the instrument, will be entered at the end of the pressure trace.

Instructions on the proper preparation of barograph traces in TOPICS AND PERSONNEL, November 1937, page 471, will continue to be followed, except as modified by the foregoing.

CHARTS OF NORMAL SEA-SURFACE TEMPERATURE

Attention is invited to the monthly charts of normal sea-surface temperature for the western north Atlantic Ocean which appear in the Monthly Weather Review for February 1938. These charts were prepared primarily for forecasters and others who desire to make use of the sea surface temperature in their analysis of the synoptic situation.

Sets of the charts have been published separately, in two forms, (1) printed on one side only, for mounting on a stiff backing; (2) a more compact set, printed on both sides.

These charts are available for issue to stations where extra sets are needed.

Officials at port stations who furnish marine forms to ships may secure a supply on request for issue to ships' officers cooperating with the Weather Bureau. Officials making requests should specify whether they desire charts printed on one side only or on both sides.

COMPUTATION OF SALARY

The attention of officials approving pay rolls for field disbursement is invited to the instructions contained in paragraph 3211 of Department Regulations. A number of erroneous payments, resulting from inclusion of the 31st day of the month when a fractional part of a month was involved, have recently been made on pay rolls approved by field officials for payment by regional disbursing officers.

The following provision of the Executive Order of June 10, 1933, is again brought to the attention of approving officials:

The Division of Disbursement shall disburse moneys only upon the certification of persons by law duly authorized to incur obligations upon behalf of the United States. The function of accountability for improper certification shall be transferred to such persons, and no disbursing officer shall be held accountable therefor.

OBTAINING WIND VELOCITIES WITH BUZZER-TYPE WIND INDICATORS

It has come to the attention of the Central Office that many stations equipped with the buzzer-type wind indicators are determining wind velocities by counting the number of buzzes for 15 or 30 seconds and then multiplying by 4 or 2, as the case may be, to determine the number of buzzes that would occur in 1 minute. Under this practice, an error in a 15-second count will, when multiplied by 4, produce an error in the velocity four times as great as an equal error in a 60-second count.

An interval of 15 or 30 seconds is too short to be certain that a representative measurement of wind velocities will be obtained. Accordingly, in all cases, velocities will be determined by counting the number of buzzes for 1 full minute and then applying the instrumental correction, if any, to the values thus obtained. This applies to all stations using the buzzer-type of wind indicators and to all types of observations made

at such stations (airway sequence, code sequence, 6-hourly, off-airway, etc.) Supervising airway officials will see that the foregoing instructions are carried out at all stations under their supervision.

PROMPT RETURN OF INSPECTION CERTIFICATES

Deliveries of goods on Purchase Orders must be promptly inspected and the signed inspection certificates returned to the Central Office as soon as possible after inspection and acceptance. This request applies to *all* inspection certificates, regardless of whether or not a cash discount is involved, but particular attention should be paid to pink colored inspection certificates on account of the cash discount. Failure to comply with this request means delay, loss of discounts, and more work in the preparation of memoranda of explanation than the Central Office can afford at this time. Prompt return of inspection certificates will relieve all offices concerned of much additional work.

It will be noted that provision is made on the inspection-certificate form for entry of the date of delivery and also for entry of the date of signature. Care should be taken to see that both dates are given, i. e., the date of delivery should be shown after the word "Received" and the date of signature after the word "Date", opposite the signature. It is thought that it should be practicable in most cases to enter the same date in both places.

INTERNATIONAL MONTH—JULY 1938

The Weather Bureau will make daily sounding-balloon observations at Omaha, Nebr., during the International Month, July 1938, with two observations daily during the period July 18-23, inclusive. It is requested that stations within approximately 300 miles of Omaha take steps to disseminate this information through the local press and radio a few days prior to July 1, and occasionally during the month of July, in order that the populace will be on the lookout for the meteorographs. This will insure the greatest possible number of instruments being returned to the Weather Bureau in accordance with printed instructions attached to each instrument. A payment of \$3 will be made for the return of each instrument.

It is planned to attach two instruments to each balloon, one of the Fergusson type and one of the Jaumotte type, for check purposes.

The above program is in addition to the radiometeorograph program which is planned to start July 1 at Omaha, when daily soundings will be made throughout the fiscal year.

BUREAU EMPLOYEE AWARDED GREGG MEDAL

Miss Mary D. Stanski, assistant clerk-stenographer, CAF-3, in the Personnel Section of the Administrative Division of the Central Office, who has attended the last two semesters of the U. S. Department of Agriculture Graduate School, was awarded the medal given by the Gregg Publishing Company in the 140-word-per-minute stenographic examination held on May 10, 1938. Miss Stanski's rating was 98.4 percent.

SUBMISSION OF VOUCHERS FOR THE FISCAL YEAR 1938

The attention of station officials is invited to instructions contained in the article entitled "Payments for Services When Quantity Is Determined by Meter Readings" on page 385 of the May 1937 number of TOPICS AND PERSONNEL and in paragraphs 93(a) and 101(b) of Station Regulations.

Vouchers for supplies purchased or services performed prior to June 30, 1938, should not be withheld until July 1, 1938, but should be forwarded as soon as due in order to relieve, as much as possible, the "peak load" in the Central Office just after July 1, 1938.

CHANGES IN SGL D&A REPORTS

The 7:30 a. m. and 7:30 p. m., E. S. T., observations taken at the 6-hourly station at Americus, Ga., were added to the SGL D&A distribution system on June 1, 1938.

The 7:30 a. m. and 7:30 p. m., E. S. T., observations taken at the 6-hourly station at Urbanna, Va., will not be distributed in the SGL D&A system, as indicated in TOPICS AND PERSONNEL, of January 1937.

Distribution of SGL D&A reports from Ludington, Mich., will be discontinued at the termination of June 8, 1938, due to the closing of the second-order Weather Bureau station at that point.

Beginning June 9, 1938, 7:30 a. m. and 7:30 p. m., E. S. T., reports from the newly opened 6-hourly station at Frankfort, Mich., will be given distribution through the SGL D&A system.

STATIONS REGULATIONS

Amended pages of Station Regulations, numbers 17-R, 18-R, 19, 20-R, 41-R, and 42-2R, were mailed to all regular and airport stations on May 23, 1938. Any station not receiving a copy of each should notify the Central Office.

RETIREMENTS

Mr. Roscoe Nunn, official in charge of the St. Louis station, was retired May 31, 1938, after more than 46 years of Government service. Mr. Nunn was born in Lenoir County, N. C., on May 29, 1868. He entered the Weather Bureau service on July 1, 1891, at Raleigh, N. C., and subsequently served as assistant at Nashville and as official in charge at Nashville, Baltimore, St. Louis, and Denver.

Miss Geneva B. Diehl, clerk in the Central Office, was retired May 31, 1938, after more than 50 years of Government service. Miss Diehl was born in Philadelphia, Pa., on May 22, 1868. She entered the service on July 1, 1887, at Washington, D. C., and served continuously at that place until the time of her retirement. Prior to July 1, 1891, at which time the duties of the Signal Corps were transferred to the Weather Bureau, Miss Diehl served in that organization.

DEATH

Mr. Alois J. Moosbrugger, junior observer at the Omaha Airport Station, died in Omaha on May 12, 1938. He was born at St. Paul, Minn., on October 7, 1903. Mr. Moosbrugger entered the Government service at Omaha on April 21, 1922, and served at that place to the time of his death.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of May 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Anerich, Paul A.	Los Angeles, Calif. (Burbank.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Bollay, Eugene	Washington, D. C.	Appointed assistant meteorologist, P-2, at \$2,600.
Clafin, Frederick F.* ...	Washington, D. C.	Appointed senior engineering draftsman, SP-6, at \$2,000 by transfer from the Forest Service and transfer from the field to the departmental service.
Clark, Kenneth R.	Rock Spring, Wyo.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Cochrane, Calvin W.	Chattanooga, Tenn.	Junior meteorologist, promoted to \$2,200 from \$2,100.
Coleman, George D., Jr. .	Jacksonville, Fla.	Junior observer at \$1,440, resigned; record, unsatisfactory.
Crye, Lahmann B.*	Wilmington, N. C.	Appointed minor observer at \$1,020, pending certification of eligibles.
Curtis, Robert H.	Washington, D. C.	Appointed scientific aid, SP-5, at \$1,800, from observer at the same salary with transfer from the field to the departmental service.
Diehl, Miss Geneva B. .	Washington, D. C.	Clerk, CAF-4, at \$2,160; retired.
Grove, James P. Jr.	Dallas, Tex. (Airport.)	Appointed under observer at \$1,200.
Harney, Patrick J.	Washington, D. C.	Appointed junior meteorologist, P-1, at \$2,000; appointment as junior observer, Los Angeles, Calif., terminated.
Harvey, Harold C.	Los Angeles, Calif. (Burbank.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Hope, James J.	Washington, D. C.	Principal telegrapher, CAF-6, at \$2,600, granted leave without pay from May 6, 1938 to the termination of August 5, 1938.

* Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Hunt, Gaillard.....	Jacksonville, Fla.....	Junior observer at \$1,440, resigned; record, unsatisfactory.
Hutchinson, Charles E..	Jacksonville, Fla.....	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Jones, Leonard E.....	Washington, D. C.....	Assistant clerk, CAF-3, at \$1,620; name changed on rolls from Leonard E. Jones, Jr.
Lichtblau, Stephen.....	Portland, Oreg..... (Airport.)	Promoted to associate meteorologist at \$3,200 from assistant meteorologist at \$2,700.
Lindsay, Mrs. Mabel D..	Washington, D. C.....	Library assistant, SP-5, at \$1,800, resigned; record, excellent.
Lubowsky, Max.....	Syracuse, N. Y.....	Under observer at \$1,260, resigned; record, unsatisfactory.
McLaurin, Sylvester L...	Washington, D. C.....	Guard (watchman), Cu-3, at \$1,200, resigned; record, excellent.
Mahler, Mrs. Hazel R...	Washington, D. C.....	Appointed junior clerk-stenographer, CAF-2, at \$1,440 by transfer from the Bureau of Agricultural Economics.
Martin, William R.....	Winslow, Ariz.....	Junior observer at \$1,440, resigned; record, unsatisfactory.
Mead, William L.....	Washington, D. C.....	Telegrapher, CAF-4, at \$2,100, granted leave without pay from May 25, 1938 to the termination of August 24, 1938.
Montzka, Alfred J.....	Washington Airport.... (Arlington, Va.)	Junior meteorologist at \$2,000, resigned; record, good.
Moosbrugger, Alois J....	Omaha, Nebr.....	Assistant observer at \$1,620, died May 12, 1938.
Moxom, Walter J.....	St. Louis, Mo.....	Promoted to senior meteorologist at \$4,600 from meteorologist, P-4, at \$3,800 with transfer from the departmental to the field service.
Nunn, Roscoe.....	St. Louis, Mo.....	Senior meteorologist at \$4,800, retired.
Patterson, Lester D.....	Washington, D. C.....	Messenger, Cu-3, at \$1,200, transferred to Soil Conservation Service.
Powers, Roy J.....	Washington Airport.... (Arlington, Va.)	Promoted to junior meteorologist at \$2,000 from scientific aid, SP-5, at \$1,800 with transfer from the departmental to the field service.
Peake, Frederick D.....	Omaha, Nebr..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Reeves, Edgar W.....	Columbus, Ohio.....	Minor observer at \$1,080, resigned; record, excellent.
Reiter, Philip.....	Boston, Mass..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Richardson, Miss Margarette	San Francisco, Calif....	Appointed junior stenographer at \$1,440.

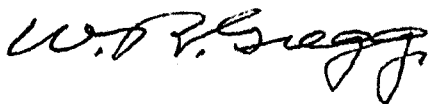
Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Rose, David	Washington, D. C.....	Appointed junior clerk-stenographer, CAF-2, at \$1,440 by transfer from the Government Printing Office.
Seppeler, Melvin.....	Columbus, Ohio.....	Appointed minor observer at \$1,020 by reinstatement in the Department.
Smith, J. Landie, Jr....	Macon, Ga.....	Junior observer at \$1,440, resigned; record, very good.
Terry, Chalmers E.....	Galveston, Tex.....	Junior observer at \$1,440, resigned; record, unsatisfactory.
Thomas, Arthur N.....	Washington, D. C.....	Promoted to scientific aid, SP-5, at \$1,800 from assistant observer at \$1,020 with transfer from the field to the departmental service.
Vogan, William W.*....	Dayton, Ohio.....	Appointed minor observer at \$1,020, pending certification of eligibles.
Watson, John D.....	Savannah, Ga.....	Appointed minor observer at \$1,020.
Weiss, Leonard L.....	Rock Springs, Wyo.....	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.

* Indicates temporary appointment.

Changes in assignments

Name	Relieved from—	Assigned to—
Clark, Kenneth R.....	North Platte, Nebr.....	Rock Springs, Wyo., assistant.
Cochrane, Calvin W.....	Chicago, Ill..... (Airport.)	Chattanooga, Tenn., assistant.
Conover, Leslie F.....	Hartford, Conn.....	Harrisburg, Pa., in charge.
Curtis, Robert H.....	Washington Airport..... (Arlington, Va.)	Washington, D. C., assistant.
Green, Ernest W.....	Dallas, Tex.....	Jacksonville, Fla. (Airport), assistant.
Green, Harrison H.....	Nashville, Tenn.....	Omaha, Nebr., assistant.
Harris, Miles F.....	Savannah, Ga.....	Macon, Ga., assistant.
Hathaway, Henry E.....	Rending, Pa.....	Hartford, Conn., in charge.
Hutchinson, Charles E.....	Mobile, Ala.....	Jacksonville, Fla., assistant.
Johnson, Warren O.....	Lakeland, Fla.....	Jacksonville, Fla., assistant.
Ling, Charles S.....	Harrisburg, Pa.....	Reading, Pa., in charge.
Lothman, Arvy A.....	San Francisco, Calif.....	Pasadena, Calif., assistant.
Moxom, Walter J.....	Washington, D. C.....	St. Louis, Mo., in charge.
Pardue, Leonard G., Jr..	Lakeland, Fla.....	Mobile, Ala., assistant.
Powell, Philip J.....	Lakeland, Fla.....	Pensacola, Fla., assistant.
Redus, Robert L.....	Lakeland, Fla.....	Miami, Fla., assistant.
Sherouse, Ray T.....	Lakeland, Fla.....	Tampa, Fla., assistant.
Whittelsey, Chauncey A., Jr.	Rock Springs, Wyo.....	North Platte, Nebr., assistant.



Chief of Bureau.

WEATHER BUREAU TOPICS AND PERSONNEL

JUNE 1938

PERSONNEL ADMINISTRATION

The following Bulletin of Personnel Administration, No. 6, dated June 20, 1938, is given for the information of all Weather Bureau personnel:
To Department of Agriculture Executives:

Personnel relations policy and procedure.—By the time this bulletin reaches you you may have received a copy of Secretary's Memorandum, No. 753, establishing a personnel relations policy and procedure for the Department. You may be interested in the evolution of this statement and in the method of policy-making employed.

Objective of the appeals procedure.—The introduction of the memorandum states that "It is a part of good personnel administration that employees have access to responsible administrative officials for the discussion of individual problems affecting their status and welfare. In an organization as large as this Department it is natural that questions and problems will arise involving personnel relations. Their prompt and orderly consideration and disposition is consistent equally with efficient administration and the desire of employees."

Origin of the plan.—In August 1937 there was set up a departmental Committee on Personnel Relations. The members of the committee were Paul H. Appleby, Assistant to the Secretary, chairman; Thomas H. MacDonald, Chief, Bureau of Public Roads; A. G. Black, Chief, Bureau of Agricultural Economics; J. W. Tapp, Assistant Administrator, Agricultural Adjustment Administration; P. L. Gladmon, Assistant Director of Personnel; C. M. Granger, Assistant Chief, Forest Service; L. H. Bean, Economic Adviser, Agricultural Adjustment Administration; M. G. Evans, Director of Labor Relations, Farm Security Administration, and Roy F. Hendrickson, secretary.

This committee discussed the desirability of an appeals procedure for the adjustment of difficulties between supervisors and subordinates. In January 1938 the secretary of the committee was appointed Assistant Director of Personnel for the Department and intensified work already begun on preliminary drafts.

Preparation of the statement of policy.—The first draft of the statement incorporated certain practices and policies used by several Government agencies here, by the State of Minnesota, and by certain industrial organizations, together with a number of ideas which were original in that they were conceived of with particular reference to this Department and its multiple functions and organizations.

Conferences with representative groups.—The first draft and several subsequent revisions were subjected to detailed criticism of the principal staff members of the Office of Personnel at a series of six meetings.

A selected group of Bureau chiefs, regarded as representative of the various types of work and various management attitudes in the Department, were given copies for study. The majority of these and representatives of others and Mr. Appleby were brought together in the office of the Director of Personnel for a conference to discuss the statement. It was unanimously approved in principle, and valuable suggestions were made with regard to certain details of the procedure, which were incorporated in the next draft.

Next, several members of the Secretary's staff were given copies for criticism and were brought together for a discussion of the proposal. Those who participated in this meeting were: W. A. Jump, Director of Finance; Morse Salisbury, Acting Director of Information; C. W. Warburton, Director of Extension; R. W. Trullinger, representing the Director of Research, and Mastin G. White, the Solicitor. Again valuable suggestions were made and indorsement given the basic principles.

Heads of employee unions or lodges within the Department of Agriculture, eight in all, were then brought together and in a 2-hour discussion reviewed and appraised the statement in detail. This group also offered valuable suggestions, which were incorporated in the next draft, and approved the proposal in principle.

A group of departmental employees, 14 in all, were then selected by a simple sampling device without regard for their grade, salary, or affiliation or nonaffiliation with any organization of employees. Only one employee from any Bureau or agency was included in the selection. This group also made valuable suggestions after being given an opportunity to discuss the proposal thoroughly. As in the case of the other groups brought together before, practically every suggestion made was useful and was incorporated in the proposed memorandum.

Finally, the heads of the three organizations of Federal employees were brought together. These three organizations were represented as follows: The National Federation of Federal Employees, by Mrs. T. Lindsey, national organizer, representing the president, Luther C. Steward; the American Federation of Government Employees, by Colonel Charles I. Stengle, president; the United Federal Workers of America, by Jacob Baker, president, and Eleanor Nelson, secretary-treasurer. Again valuable suggestions were offered which were incorporated in the proposed memorandum after all members of the group had individually and specifically expressed approval of the basic principles of the proposal. These spokesmen, who are familiar in detail with grievances of Federal employees and who have had experience in dealing with such grievances over a period of time, expressed themselves as of the opinion that the proposed memorandum would represent a very progressive step in the direction of materially improving personnel relations.

The Secretary's contribution.—The final draft of the statement, representing the best judgment of these several groups of employees and national union presidents, was then sent to the Secretary for his consideration. He signed it and sent it out as a memorandum without change, adding only a paragraph at the end of the statement, in which he said:

"A personal word in conclusion. I am very anxious that personnel relations in the Department be satisfactory at all times. This statement of policy and procedure will contribute to that end. All employees—administrators, supervisory and non-supervisory personnel, alike—should consider this statement carefully. I shall be glad to receive reactions—favorable or unfavorable—from any employee in writing so that we may have the benefit of any suggestions for its future improvement".

UNIVERSITY TRAINING IN METEOROLOGY UNDER CIVIL-AERONAUTICS ACT

The Civil Aeronautics Act of 1938, enacted by the Congress at the session just closed, creates a Civil Aeronautics Authority for the regulation and development of civil aeronautics. Among the duties of this Authority, section 304 of the act prescribes as follows:

Meteorological service.—The Administrator is empowered and directed to make recommendations to the Secretary of Agriculture for providing meteorological service necessary for the safe and efficient movement of aircraft in air commerce.

Section 803 of the act further provides that, in order to promote the safety and efficiency of aircraft to the highest possible degree, the Chief of the Weather Bureau, under the direction of the Secretary of Agriculture, shall, in addition to any other

functions or duties pertaining to weather information for other purposes, (1) make such observations, measurements, investigations, and studies of atmospheric phenomena, and establish such meteorological offices and stations, as are necessary or best suited for ascertaining, in advance, information concerning probable weather conditions; (2) furnish such reports, forecasts, warnings, and advices to the Authority, and to such air carriers and other persons engaged in civil aeronautics as may be designated by the Authority, and to such other persons as the Chief of the Weather Bureau may determine, and such reports shall be made in such manner and with such frequency as will best result in safety in air navigation; (3) cooperate with any person employed by air carriers in meteorological service, and (4) detail annually not to exceed 10 members of the Weather Bureau personnel for training at Government expense, either at civilian institutions or otherwise, in advanced methods of meteorological science; *Provided*, That no such member shall lose his individual status or seniority rating in the Bureau merely by reason of absence due to such training.

Under this provision it is planned to detail about four selected Weather Bureau employees to educational institutions for advanced training in meteorology during the academic year 1938-39.

PERSONNEL QUALIFICATIONS QUESTIONNAIRE

A circular entitled "Personnel Questionnaire", dated June 29, 1938, was mailed to all regular and airport stations on July 2, 1938. This circular, which is self-explanatory, was accompanied by a sufficient number of copies of the questionnaire to enable each employee formally appointed by the Secretary of Agriculture, including airway observers, to furnish the required data in duplicate. Any station not receiving copies of the above-mentioned circular and questionnaire should notify the Central Office immediately.

TRAVEL BY COMMERCIAL AIRCRAFT

In an act approved June 23, 1938, "To create a Civil Aeronautics Authority, and to promote the development and safety and to provide for the regulation of civil aeronautics", there appears the following provision (sec. 204(c) :

Travel by personnel of the United States Government on commercial aircraft, domestic or foreign, including travel between airports and centers of population or posts of duty when incidental to travel on commercial aircraft, shall be allowed at public expense when authorized or approved by competent authority, and transportation requests for such travel may be issued upon such authorizations. Such expense shall be allowed without regard to comparative costs of transportation by aircraft with other modes of transportation.

The policy of the Weather Bureau in regard to the legislation quoted will be to authorize or approve travel on commercial aircraft when such travel is advantageous in the interest of the Government. Requests for authorization to travel by commercial aircraft should state that this mode of transportation is advantageous to the Government, giving reason, such as saving in time, etc. When there is no advantage to the Government and other more economical means of transportation are available, these should be used.

RELEASING SOUNDING BALLOONS DURING 1938 HURRICANE SEASON

During the 1938 hurricane season the Weather Bureau and the Massachusetts Institute of Technology are cooperating in a project for investigating upper-air conditions in a tropical cyclone. The Bureau is installing equipment sufficient for 30 Jaumotte meteorograph sounding-balloon ascents at Raleigh, N. C.; Columbia, S. C.; Macon, Ga.; Montgomery, Ala.; Meridian, Miss.; Vicksburg, Miss., and Houston, Tex. The Massachusetts Institute of Technology has sent one man with 25 radiometeorographs to Cuba and another man with an equal number of radiometeorographs to San Juan, P. R.

When a hurricane appears to be approaching one or more of the stations in continental United States, the Central Office of the Weather Bureau, at Washington, D. C., on the basis of hurricane warnings and advices received from the New Orleans, La., and Jacksonville, Fla., forecast centers, will direct telegraphic messages to the appropriate stations indicating the time to begin releasing the sounding balloons and the frequency with which they are to be released subsequently. Arrangements are being worked out for the release of the radiometeorographs in Cuba and Puerto Rico on the basis of advices issued at the Jacksonville, Fla., and San Juan, P. R., forecast centers.

Details regarding the Jaumotte meteorograph may be found on pages 286-287 of the August 1936 TOPICS AND PERSONNEL.

✓ Helium gas will be used to inflate the sounding balloons at Maxwell Field, Montgomery, Ala.; Meridian, Miss.; Vicksburg, Miss., and Houston, Tex. Hydrogen gas will be used at the other stations.

It is expected that the Jaumotte meteorographs will be found, after release, within a radius of 25 to 200 miles of the stations in question.

The data obtained from the project are to be exchanged by the Weather Bureau and the Massachusetts Institute of Technology. Studies made on the basis of these data are expected to provide important information regarding the structure of the disturbances in connection with which the sounding balloons are to be released. Studies are now being made of the data obtained on two occasions last year from Jaumotte meteorographs released at Macon, Ga.; Maxwell Field, Montgomery, Ala.; Vicksburg, Miss., and Raleigh, N. C.

It is requested that officials in charge of Weather Bureau stations located within 500 miles of the possible releasing stations in question prepare a digest of information regarding this project and furnish copies of the digest to local newspapers in order to disseminate the information as extensively as practicable with a view to increasing the likelihood of return of meteorographs found. It is important to emphasize that the success of the project depends on the return of the Jaumotte meteorographs to the Weather Bureau as soon as found, unopened and undamaged, since the records are useless without being available in Washington for decipherment in an intact condition.

DETAILED OBSERVATIONS DURING PASSAGE OF A HURRICANE

Reference is made to an article on pages 287-288 of the August 1936 issue of TOPICS AND PERSONNEL requesting detailed cloud observations and pilot-balloon observations of greatest possible length during the passage of a hurricane, in connection with a cooperative project undertaken by the Weather Bureau and the Massachusetts Institute of Technology for investigating upper-air conditions in such a disturbance. It is desired that every effort be made by officials at Weather Bureau stations to fulfill similar requests in relation to hurricanes which, during the 1938 season, traverse any region within a radius of some hundreds of miles of the stations listed in the preceding article, "Releasing Sounding Balloons During 1938 Hurricane Season".

AIRPLANE AND RADIOMETEOROGRAPH OBSERVATIONS

Airplane and radiometeorograph observations during the fiscal year beginning July 1, 1938, will be made as follows:

AIRPLANE OBSERVATIONS

Billings, Mont.	Chicago, Ill.	Salt Lake City, Utah.
Cheyenne, Wyo.	El Paso, Tex.	Spokane, Wash.

RADIOMETEOROGRAPH OBSERVATIONS

Fargo, N. Dak.	Oakland, Calif.	Omaha, Nebr.
Nashville, Tenn.	Oklahoma City, Okla.	Sault Ste. Marie, Mich.

NAVY AIRPLANE OBSERVATIONS

Coco Solo, Canal Zone.	Pearl Harbor, Hawaii.	San Diego, Calif.
Lakehurst, N. J.	Pensacola, Fla.	Seattle, Wash.
Norfolk, Va.	St. Thomas, Virgin Islands.	

RADIOMETEOROGRAPH OBSERVATIONS

Washington, D. C. (Navy)

ARMY RADIOMETEOROGRAPH OBSERVATIONS

Patterson Field, Dayton, Ohio.	Barksdale Field, Shreveport, La.
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The War Department advised that it would be impracticable for the Army to continue airplane observations after June 30 and the Weather Bureau received no funds for continuing these observations. The Army will establish radiometeorograph observations at the two stations indicated above shortly after July 1.

NEW CODE FOR AIRPLANE AND RADIOMETEOROGRAPH OBSERVATIONS

Effective August 1, 1938, a new code for transmitting airplane and radiometeorograph observations will be adopted. This new code is comprised entirely of numerals and it is hoped will be suitable for international use. It is shorter than the present code and, therefore, will aid in the transmission of these reports over the crowded teletype circuits.

A copy of this code is being sent to all Weather Bureau Offices and Weather Bureau Airport Stations.

ENTERING BAROGRAPH TRACES ON FORM 1014

The following item was suggested by the official in charge, Akron, Ohio, in connection with the paragraphs in TOPICS AND PERSONNEL of October 1937, page 441:

While this station does not enter traces in Form 1014, there have been occasional records which were desired for local use in connection with frontal studies. The method used of making copies may be of value elsewhere and is herewith outlined.

Red ink is used for the original trace to make the base lines and the trace similar photographically. The record is then placed in a suitable frame on ozalid paper and exposed to sunlight for approximately a minute and a half. Development is done in a box containing a sponge, soaked in ammonia. By this method a copy is obtained very nearly the same as the original.

The Central Office does not have a supply of the ozalid paper, which must be purchased locally. The existing instructions regarding barometer traces are not altered by this item, which is furnished merely for information.

JOB PRINTING AND BINDING

Paragraph 91(f) of Station Regulations is hereby amended to read as follows:

(f) *Job printing and binding.*—Expenses for job printing and binding in the field will be handled as follows:

1. The cost of composition or presswork done by commercial firms to perform emergency printing jobs required in a Weather Bureau printing plant, and of stapling or binding of publications that have been printed in Weather Bureau printing plants, will be paid for from Weather Bureau funds. If the cost of any one job does not exceed \$10 it may be charged to circular authorization; otherwise, Purchase Requisition should be submitted.

2. The cost of job printing in the field at stations where the Weather Bureau does not operate printing plants and where the delay involved in printing at the Government Printing Office in Washington would not be in the best interests of the Government, and of binding or rebinding of original records, wherever located, which were not printed at a Weather Bureau printing plant, will be paid from Department funds. Specific advance authority must be obtained before such expenditures are incurred. When requesting advance authorization, station officials must give specific reasons why it is impracticable to have the work done at the Government Printing Office.

3. Upon completion of printed matter where the composition was done other than at a Weather Bureau printing plant, or of stapling or binding, under the conditions set forth above, it will be necessary to furnish the Central Office with J. C. P. Form No. 2, in duplicate. Request for the blank forms should be made when work of the above nature is contemplated.

4. Specific advance authorization must be obtained by telegraph for expenditures for commercial printing in the field occasioned by a break-

down at a Weather Bureau field printing plant, to be followed up by submission of Purchase Requisition, with explanatory statement of the emergency conditions when solicitation of bids is impracticable.

DISCONTINUANCE OF SGL D&A REPORTS

The a. m. SGL D&A reports from Great Falls, Mont., were discontinued on June 15, 1938, owing to the closing of the second-order station at that point. Observations from the Department of Commerce communications station at Great Falls will be transmitted in the code-sequence reports at 6-hourly periods, as provided for in the National Teletype Communications Schedules.

CHANGES IN THE INTERNATIONAL SHIP CODE

In order that table VI, "Symbols ww—Present weather", as published in the International Code for Radio Weather Reports from Ships (W. B. No. 1046), the Code Card, and "Instructions to Marine Meteorological Observers", Circular M, 1938 edition, will correspond with the new definitions for hydrometers adopted by the International Meteorological Organization, officials in charge are advised that the words indicated below in italics should be deleted in these publications on file at their stations.

SYMBOLS WW—PRESENT WEATHER

Code figure, 93.—Thunderstorm, slight, without hail *or soft hail*, but with rain (or snow).

Code figure, 94.—Thunderstorm, slight, with *soft hail*.

Code figure, 96.—Thunderstorm, moderate, with *soft hail*.

RECOATING CHALK PLATES

A notice, relative to award of contract for recoating chalk plates for fiscal year 1939, was mailed on June 21, 1938, to all stations using chalk plates. Any station using this service and not having received a notice should notify the Central Office before placing an order for chalk plates on or after July 1, 1938.

PURCHASE OF HYDROGEN GAS

On June 25, 1938, a circular entitled "Purchase of Hydrogen Gas at Field Stations During the Fiscal Year 1939" was mailed to all regular and airport stations. Any station not receiving a copy should notify the Central Office immediately.

FEDERAL BUSINESS ASSOCIATIONS

Weather Bureau officials have been elected or appointed to office in local Federal Business Associations as follows:

Mr. Ray A. Dyke, New Orleans, elected vice president.

Mr. John J. Murphy, Norfolk, elected president.

Mr. Clarence J. Root, Detroit, appointed member of executive committee.

Mr. Robert M. Shaver, El Paso, elected vice president.

Richard W. Gray, San Juan, P. R., elected president.

DEPARTMENT REGULATIONS

Copies of amendments to Department Regulations Nos. 58, 59, and 60, paragraphs 1544, 1643, and 1111, respectively, were mailed to all regular and airport stations on June 21, 1938. Any station not receiving a copy of each should notify the Central Office.

CORRECTION

The following correction is made in the article under "Death" in the May issue of TOPICS AND PERSONNEL:

Mr. Moosbrugger's title should have been "assistant observer" instead of "junior observer".

RETIREMENTS

Mr. Walter B. Hare, official in charge of the Phoenix station, was retired June 30, 1938, on account of physical disability. He was born at Sandusky, Ohio, on February 20, 1880. Mr. Hare entered the Weather Bureau service on June 16, 1905, at Tampa, Fla., and subsequently served as assistant at Columbia, Mo., Columbus, Scranton, Ithaca, and Houston, and as official in charge at Palestine, Canton, Springfield, Mo., and Phoenix.

Mr. Ernest K. Lovett, assistant at the Seattle station, was retired June 30, 1938, on account of physical disability. He was born at Miles City, Mont., on June 11, 1889. Mr. Lovett entered the Weather Bureau service on December 16, 1925, at Helena, Mont., as assistant, and later served as official in charge at Kalispell and assistant at Seattle.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of June 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Banks, William H.....	Memphis, Tenn..... (Airport.)	Junior observer, promoted to \$1,500 from \$1,440.
Banton, Clarence W.....	Washington, D. C.....	Appointed guard (watchman), Cu-3, at \$1,200, by reinstatement in Government service; appointment as relief watchman terminated June 30, 1938.
Barnes, Jesse E.....	Memphis, Tenn.....	Reduced to junior observer at \$1,440 from assistant observer at \$1,620, without prejudice.
Bertoni, Louis.....	Springfield, Ill..... (Airport.)	Appointed under observer at \$1,200.
Bonzagni, John H.....	Boston, Mass.....	Appointed junior observer at \$1,440.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Brodie, Bernard.....	Chicago, Ill.....	Observer at \$1,800, granted leave without pay from June 22, 1938, to termination of June 21, 1939.
Byers, Horace R.....	Washington, D. C.....	Promoted to meteorologist, P-4, at \$3,800 from associate meteorologist, P-3, at \$3,300.
Carpenter, Lowell E.....	Pocatello, Idaho (Airport.)	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Clafin, Frederick F.....	Washington, D. C.....	Senior engineering draftsman, SP-6, at \$2,000, temporary appointment made permanent.
Conover, Leslie F.....	Harrisburg, Pa.....	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,000.
Duggin, William G.....	Los Angeles, Calif..... (Burbank.)	Appointed junior observer at \$1,440.
Elford, Carroll A.....	Boise, Idaho.....	Appointed minor observer at \$1,020.
Emmons, Gardner.....	Washington, D. C.....	Associate meteorologist, P-3, at \$3,200, resigned; record, excellent.
Epstein, David.....	Buffalo, N. Y.....	Junior observer at \$1,440, probationary appointment terminated because of physical disability.
Ferrara, Angelo J.....	Washington, D. C.....	Appointed senior engineering draftsman, SP-6, at \$2,000 by transfer from the Bureau of Biological Survey.
Fisher, Daniel.....	Washington, D. C.....	Appointed senior engineering draftsman, SP-6, at \$2,000 by transfer from the Bureau of Public Roads.
Gibbons, Harold M.....	Winslow, Ariz.....	Appointed junior observer at \$1,440.
Gladden, Clare S.....	Washington, D. C.....	Appointed engineering draftsman, SP-5, at \$1,800 by transfer from the Bureau of Chemistry and Soils.
Goheen, Austin C.....	North Head, Wash.....	Appointed junior observer at \$1,440.
Goodman, Hyman.....	Chicago, Ill.....	Junior observer at \$1,440, restored to duty from leave without pay, effective June 16, 1938.
Green, Ernest W.....	Jacksonville, Fla.....	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Greenfield, David.....	Los Angeles, Calif.....	Appointed junior observer at \$1,440.
Hare, Walter B.....	Phoenix, Ariz.....	Associate meteorologist at \$3,200, retired.
Harris, Miles F.....	Macon, Ga.....	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Hathaway, Henry E.....	Hartford, Conn.....	Assistant meteorologist, promoted to \$2,700 from \$2,600.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Heller, J. Roe.....	Washington, D. C.....	Promoted to junior hydrologic engineer at \$2,100 from senior engineering draftsman, SP-6, at \$2,000 with transfer from the departmental to the field service.
Hennessey, Harold J.*...	Cambridge, Mass..... (M. I. T.)	Agent at \$125 per month, temporary appointment continued, to terminate not later than June 30, 1939.
Holst, William H. C.....	Washington, D. C.....	Senior engineering draftsman, SP-6, at \$2,300, granted leave without pay from June 20, 1938, to the termination of September 19, 1938.
Irvin, Wesley.....	Galveston, Tex.....	Appointed junior observer at \$1,440.
Jencks, Carlton E.....	Seattle, Wash.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Kinnear, William E.....	Washington, D. C.....	Appointed engineering draftsman, SP-5, at \$1,800 by reinstatement in the Government service.
Koogler, Robert E.....	Dayton, Ohio.....	Appointed minor observer at \$1,020.
Lassen, Miss Alice M....	Washington, D. C.....	Promoted to assistant clerk, CAF-3, at \$1,620 from junior clerk-stenographer, CAF-2, at \$1,440.
Lees, Sidney.....	Ithaca, N. Y.....	Appointed junior observer at \$1,440.
Light, Phillip.....	Washington, D. C.....	Appointed junior hydrologic engineer, P-1, at \$2,000 by transfer from the Bureau of Agricultural Economics.
Ling, Charles S.....	Reading, Pa.....	Assistant meteorologist, promoted to \$3,100 from \$3,000.
Lovett, Ernest K.....	Seattle, Wash.....	Observer at \$1,920, retired.
Lukes, George D.*.....	Cambridge, Mass..... (M. I. T.)	Appointed agent at \$750, temporarily.
McGregor, Clifford J....	New York, N. Y..... (Newark, N. J.)	Junior meteorologist at \$2,200, leave without pay extended to termination of September 30, 1938.
Maiden, Darrell E.....	Chicago, Ill.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Mangus, Mrs. Felicitas P.	Washington, D. C.....	Assistant clerk, CAF-3, at \$1,620, resigned; record, very good.
Meeks, Miss Gladys M...	Washington, D. C.....	Appointed library assistant, SP-5, at \$1,800 by transfer from Bureau of Public Roads.
Mendelson, Joseph U....	Cleveland, Ohio.....	Appointed junior observer at \$1,440.
Miller, David W.....	Atlanta, Ga.....	Promoted to junior meteorologist at \$2,000 from senior observer at the same salary.

* Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Miller, Jacob L.....	Chicago, Ill.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Murphy, Ethan A.*.....	Cambridge, Mass..... (M. I. T.)	Appointed agent at \$875, temporarily.
Namias, Jerome*.....	Cambridge, Mass..... (M. I. T.)	Appointed agent at \$2,600, temporarily.
Namias, Jerome*.....	Cambridge, Mass..... (M. I. T.)	Agent, temporary appointment continued, to terminate not later than June 30, 1939, and salary reduced, without prejudice, from \$2,600 to \$1,300.
Pekeris, Chaim L.*.....	Cambridge, Mass..... (M. I. T.)	Agent at \$1,750, temporary appointment continued, to terminate not later than June 30, 1939.
Parry, Idwal.....	Syracuse, N. Y.....	Appointed under observer at \$1,260.
Richmond, Albert.....	Buffalo, N. Y.....	Appointed junior observer at \$1,440.
Rosenthal, Joseph R.....	Washington, D. C.....	Promoted to senior scientific aid, SP-6, at \$2,000 from observer at \$1,800, with transfer from the field to the departmental service.
Rosby, Carl-Gustaf A.*..	Cambridge, Mass..... (M. I. T.)	Agent at \$2,100, temporary appointment continued, to terminate not later than June 30, 1939.
Rowe, William M.....	Memphis, Tenn..... (Airport.)	Junior observer, promoted to \$1,500 from \$1,440.
Sadler, Joseph P.....	Washington, D. C.....	Promoted to messenger, Cu-3, at \$1,200 from assistant messenger, Cu-2, at \$1,080.
Saltzman, Bernard.....	Ithaca, N. Y.	Junior observer at \$1,440, resigned because of physical defect; record, very good.
Snider, Ross A.....	Cincinnati, Ohio..... (Airport.)	Junior observer, promoted to \$1,500 from \$1,440.
Solot, Samuel B.....	Washington, D. C.....	Promoted to junior meteorologist, P-1, at \$2,000 from senior scientific aid, SP-6, at the same salary.
Starr, Victor P.....	Boston, Mass..... (Cambridge.)	Assistant observer at \$1,620, restored to duty from leave without pay, effective June 6, 1938, and promoted to observer at \$1,800.
Stevlingson, David J....	Washington, D. C.....	Junior meteorologist, promoted to \$2,200 from \$2,000.
Stuart, Robert M.....	Springfield, Ill..... (Airport.)	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Thom, Herbert C. S.....	Washington, D. C.....	Appointed assistant hydrologic engineer, P-2, at \$2,600 by transfer from the Soil Conservation Service.

* Indicates temporary appointment.

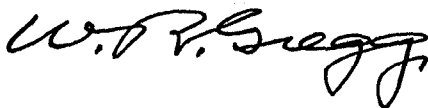
Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Tannehill, Ivan R.....	Washington, D. C.....	Promoted to principal meteorologist, P-6, at \$5,000 from senior meteorologist, P-5, at \$4,600.
Tovey, Wyatt T.....	Seattle, Wash..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Vogan, William W.*....	Dayton, Ohio.....	Minor observer at \$1,020, appointment terminated; record, very good.
Winburn, Henry C.....	Houston, Tex..... (Airport.)	Promoted to junior meteorologist at \$2,000 from senior observer at the same salary.
Wolbach, Ralph S.....	Milwaukee, Wis.....	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Wood, Thomas J.....	Mobile, Ala.....	Appointed minor observer at \$1,020.
Wright, Samuel F.....	North Platte, Nebr.....	Minor observer at \$1,020, restored to duty from leave without pay, effective June 16, 1938.

*Indicates temporary appointment.

Changes in assignments

Name	Relieved from—	Assigned to—
Barnes, Bertram S.....	Davenport, Iowa.....	Iowa City, Iowa, in charge.
Carpenter, Lowell E.....	Boise, Idaho.....	Pocatello, Iowa, assistant.
Drawbaugh, William B..	Fairbanks, Alaska.....	Nashville, Tenn. (Airport), assistant.
Griggs, Armand L.....	Lakeland, Fla.....	Galveston, Tex., assistant.
Harris, Dale R.....	Los Angeles, Calif.....	Omaha, Nebr. (Airport), assistant.
Mox, Eldred O.....	Los Angeles, Calif.....	San Francisco, Calif. (Oakland Airport), assistant.
Paulhus, Joseph L. H....	Boston, Mass..... (Airport.)	Oklahoma City, Okla. (Airport), assistant.
Powers, Roy J.....	Washington, D. C.....	Washington Airport, Arlington, Va., assistant.
Reeves, Charles G.....	Lakeland, Fla.....	Houston, Tex., assistant.
Snider, Ross A.....	Springfield, Ill.....	Cincinnati, Ohio, assistant.
Starr, Victor P.....	Washington Airport.... (Arlington, Va.)	Boston, Mass. (Cambridge), assistant.
Thomas, Arthur N.....	Boston, Mass..... (Airport.)	Washington, D. C., assistant.
Van de Erve, Jerome....	Davenport, Iowa.....	Iowa City, Iowa, assistant.
Wolbach, Ralph S.....	North Platte, Nebr.....	Milwaukee, Wis., assistant.



WEATHER BUREAU TOPICS AND PERSONNEL

JULY 1938

ARMISTICE DAY

In accordance with the act of Congress approved May 13, 1938 (Public, No. 510, 75th Cong.), the 11th day of November—Armistice Day—is made a legal public holiday to all intents and purposes and in the same manner as the 1st day of January, the 22d day of February, the 30th day of May, the 4th day of July, the first Monday of September, and Christmas Day are now made by law public holidays.

CONTRIBUTIONS TO POLITICAL FUNDS

The following Memorandum, No. 771, dated August 1, 1938, from the Acting Secretary of the Department of Agriculture is given for the information of all Weather Bureau personnel:

I am informed that some employees of the Department are receiving requests for contributions to the campaign funds of political organizations.

The Civil Service Act of January 16, 1883, provides, as follows:

"* * * that no person in the public service is for that reason under any obligations to contribute to any political fund, or to render any political service, and that he will not be removed or otherwise prejudiced for refusing to do so."

Employees are reminded that any such contributions made by them are presumed to be entirely voluntary.

TRAVEL BY COMMERCIAL AIRCRAFT

A letter, addressed by the President to the heads of executive departments, establishments, and agencies contains the following with reference to the provisions of section 204(c) of Public, No. 706, 75th Cong., quoted on page 61 of the June 1938 number of TOPICS AND PERSONNEL:

In order to hold to a minimum the cost of air travel that would be in excess of such cost under the existing Standardized Government Travel Regulations, it is my desire that all requests for travel authority of this character be given the closest scrutiny and that such travel be permitted only upon the written authorization of the head of the department, establishment, or agency for which the travel is to be performed.

The Secretary has, accordingly, directed that travel by airlines under the act referred to above must be specifically authorized by him on the letter of authorization prior to performance of travel. When such authorization has not been obtained, travel by airplane must be in accordance with the provisions of paragraph 8 of the Standardized Government Travel Regulations, i. e. (1), the traveler must show that the cost of transportation by airplane, less (a) the amount of subsistence allowance

saved by more expeditious travel, and (b) the amount of salary of the traveler for the working time thus saved does not exceed the cost of rail or steamer transportation and Pullman and/or stateroom fare between the points of travel; or (2), actual cost of airline transportation will be allowed in any case (a) where it is satisfactorily shown that no other usual means of public transportation were available; or (b), when the Secretary determines, in writing, either prior or subsequent to performance of travel, that the use of airline transportation is to the advantage of the United States because of the existence of an emergency or exigency which could not have been anticipated.

The article under the above heading in the June 1938 number of TOPICS AND PERSONNEL is amended accordingly.

FIRST-ORDER AIRPORT STATION OPENED

A Weather Bureau Airport Station, with five commissioned employees and operating throughout the 24 hours of each day, was opened at the Central Airport, Camden, N. J., under supervision of the Philadelphia, Pa., station, on August 1, 1938.

FIRST-ORDER HYDROLOGIC STATION OPENED

A first-order station was opened at Iowa City, Iowa, on June 7, 1938, primarily for hydrologic work. The station is in charge of Mr. Bertram S. Barnes, formerly of the Davenport, Iowa, office. Mail should be addressed to "Weather Bureau Hydrologic Office, Iowa City, Iowa".

CHANGES IN GENERAL SUPERVISION

Effective August 15, 1938, the general supervision of the Memphis, Tenn., Airport Station and terminal was transferred from the Fort Worth, Tex., Airport Station to the Atlanta, Ga., Airport Station.

Effective August 15, 1938, the general supervision of the New Orleans, La., Airport Station and terminal was transferred from the Atlanta, Ga., Airport Station to the Fort Worth, Tex., Airport Station.

Terminal forecasts for New Orleans will, however, continue to be prepared at the Atlanta station and terminal forecasts for Memphis will continue to be prepared at the Fort Worth station.

AIRWAY FORECASTING AND SUPERVISING WORK TRANSFERRED

The airway forecast service and general supervising duties of the Weather Bureau Airport Station, Portland, Oreg., were transferred to the Weather Bureau Airport Station, Seattle, Wash., effective August 1, 1938. The Station at Portland will continue as a Weather Bureau Airport Station, rendering 24-hour service to airways.

ROUTINGS FOR HELIUM-GAS SHIPMENTS

The Central Office has been informed by the Supervising Engineer of the Bureau of Mines helium plant at Amarillo, Tex., that in some cases

the required freight routings for shipments of helium gas have not been furnished. All stations ordering helium gas are accordingly reminded that the required freight routing must be furnished with each order as per instructions in circular dated June 17, 1938.

MOUNTING OF TOWNSEND THERMOMETER SUPPORT

Shift of the index of the minimum thermometer, caused by vibration, particularly where a large number of observations are taken each day, is being successfully overcome at a number of stations by mounting the Townsend support on an upright post, about 4 by 4 inches, or an equivalent round post, flattened at the top, anchored to the ground or roof platform, and rising through a clearance hole in the floor of the shelter.

This method of mounting is authorized, and is directed where dislodgment of the minimum thermometer, through vibration, is found to occur.

TEMPERATURE CORRECTIONS FOR RADIOMETEOROGRAPH OBSERVATIONS

It has been found that the indicated radiometeorograph temperatures at Nashville, Fargo, Sault Ste. Marie, Oakland, Oklahoma City, Omaha, and Washington, D. C., below minus 46 degrees, were too low prior to August 3, 1938. On the latter date these stations were instructed to correct the temperatures before transmitting their reports. Therefore, if any of these back data as received at any station are used for study purposes, the temperatures below minus 46°C. should be increased as follows:

From and to (Inclusive)	Increase by (°C)	From and to (Inclusive)	Increase by (°C)
-47 to -57-----	1	-71 to -73-----	5
-58 to -62-----	2	-74 to -76-----	6
-63 to -66-----	3	-77 to -78-----	7
-67 to -70-----	4	-79 to -80-----	8

CIRCULAR LETTERS

On August 4, 1938, two (2) circular letters, both dated August 3, 1938, were mailed to all Weather Bureau Offices and Airport Stations. The titles are as follows:

1. "Decalcomanias for Marking Nonexpendable Property".
2. (a) Requirements under act of June 13, 1934, in connection with contracts for construction or repair of public works.

(b) Amendment of regulations of January 1935, promulgated by the Secretary of the Treasury and the Secretary of the Interior, pursuant to the "kick-back" law (U. S. C., title 40, sec. 276b).

Any station not receiving copies of these circulars should notify the Central Office.

STORES REQUISITIONS FOR CEILING BALLOONS

In the contract for ceiling balloons for the fiscal year 1939 provision was made whereby these balloons would be packed in boxes of 50, each containing 25 red and 25 blue balloons. All stations requesting ceiling balloons hereafter are accordingly directed to indicate the number desired in multiples of 50 instead of multiples of one-quarter gross, as heretofore.

SUBSTATION APPOINTMENT FORMS

Station officials are requested when forwarding Form 4076 (Substation Appointments) to the Central Office not to mark the envelope for the attention of any one Division. A record of these forms is made in the File Room, after which they are routed to the several Divisions concerned.

MARKING ENVELOPES FOR THE CENTRAL OFFICE

Attention is again invited to the proper marking of envelopes containing forms for the Central Office. It is requested that station officials see that envelopes containing forms be marked to conform to instructions given in TOPICS AND PERSONNEL for December 1930, page 108.

DEPARTMENTAL REGULATIONS

Copies of amendments to Department Regulations Nos. 61 and 62, paragraphs 1888 and 1579, respectively, were mailed to all regular and airport stations on July 25, 1938. Any station not receiving a copy of each should notify the Central Office.

FEDERAL BUSINESS ASSOCIATIONS

Weather Bureau officials have been elected or appointed to office in local Federal Business Associations as follows:

Mr. Bernard B. Whittier, Fort Wayne, elected vice president.

CORRECTION

The following correction is made in the title "Interpretation of Paragraph 8(b) of Station Regulations" in the May 1938 issue of TOPICS AND PERSONNEL:

The word "station" should be "travel".

DEATH

Mr. Arthur Thompson, who was retired December 31, 1931, died at the Soldiers' Home Hospital in Washington, D. C., on May 12, 1938. An outline of his service and a notice of his retirement will be found in TOPICS AND PERSONNEL for November 1931.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of July 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Ahola, Alvar.....	Milwaukee, Wis.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Alkire, Herbert L.....	Camden, N. J..... (Airport.)	Assistant meteorologist, promoted to \$2,700 from \$2,600.
Anderson, Reuben M....	Sioux City, Iowa.....	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,100.
Arnold, Oliver.....	Davenport, Iowa..... (Moline, Ill., Airport)	Junior meteorologist, promoted to \$2,100 from \$2,000.
Arnold, Robert R.....	North Platte, Nebr.....	Promoted to under observer at \$1,260 from minor observer at \$1,020.
Arsenault, Frank A.*...	Cambridge, Mass..... (M. I. T.)	Appointed agent at \$875, temporarily.
Bishop, Miss Eleanor G.	Washington, D. C.....	Appointed junior clerk-stenographer, CAF-2, at \$1,440 by transfer from the Bureau of Internal Revenue.
Boyle, Ira D.....	Indianapolis, Ind.....	Appointed minor observer at \$1,020.
Bruen, John V.....	Washington, D. C.....	Appointed assistant messenger, Cu-2, at \$1,080.
Camper, Henry F.....	Washington, D. C.....	Junior clerk, CAF-2, at \$1,500 transferred to Office of the Secretary.
Carey, Ralph W.....	Pittsburgh, Pa..... (Airport.)	Junior meteorologist, promoted to \$2,100 from \$2,000.
Carney, Charles B.....	Richmond, Va..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Carstensen, Louis P....	Washington Airport.... (Arlington, Va.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Council, Thomas C., Jr..	Augusta, Ga.....	Appointed junior observer at \$1,440.
Courtney, John.....	Kylertown, Pa.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Dye, Lawrence M.....	Omaha, Nebr..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Elsasser, Walter M.*....	Pasadena, Calif..... (C. I. T.)	Appointed agent at \$1,050, temporarily.
Feltshans, Myron H....	Cincinnati, Ohio.....	Appointed junior observer at \$1,440.
French, Hobert W., Jr...	Cambridge, Mass..... (Harvard)	Appointed agent at \$1,800, temporarily, by transfer from Bureau of Agricultural Economics.
Green, Harrison H.....	Omaha, Nebr..... (Airport.)	Junior observer at \$1,440, resigned; record, very good.

*Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Greening, Gershom K....	Phoenix, Ariz.....	Promoted to associate meteorologist at \$3,200 from assistant meteorologist at \$2,800.
Harris, Dale R.....	Omaha, Nebr..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Harris, Robert C.....	Augusta, Ga.....	Junior observer at \$1,440, resigned; record, unsatisfactory.
Holst, William H. C....	Washington, D. C.....	Senior engineering draftsman, SP-6, at \$2,300, restored to duty from leave without pay, effective July 26, 1938.
Hurlbut, Sam R.....	Jacksonville, Fla.....	Appointed minor observer at \$1,020.
Jobe, Cecil R.....	Knoxville, Tenn.....	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
John, Paul E.*.....	Rochester, N. Y.....	Appointed agent at \$1,000, temporarily.
Jones, Foster V.....	Cleveland, Ohio..... (Airport.)	Assistant meteorologist, promoted to \$2,700 from \$2,600.
Jordan, Clarence R.....	Washington, D. C.....	Promoted to observer at \$1,800 from assistant scientific aid, SP-4, at \$1,620, with transfer from the departmental to the field service.
Kerr, Wallace M.....	San Antonio, Tex.....	Junior observer at \$1,440, granted leave without pay from July 1, 1938, to the termination of September 30, 1938.
Leshner, Mrs. Amy P....	Washington, D. C.....	Junior librarian, P-1, at \$2,100, name changed on rolls from Miss Amy D. Putnam.
Mead, William L.....	Washington, D. C.....	Telegrapher, CAF-4, at \$2,100, leave without pay terminated, effective July 31, 1938, and retired.
Miller, James E.....	Knoxville, Tenn.....	Appointed junior observer at \$1,440.
Mox, Eldred O.....	San Francisco, Calif.... (Oakland.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Nelson, Elmer R.....	Washington Airport.... (Arlington, Va.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
O'Brien, Brian *.....	Rochester, N. Y.....	Appointed agent at \$2,500, temporarily.
O'Neal, Coleman W....	Montgomery, Ala.....	Appointed under observer at \$1,260.
Paulhus, Joseph L. H...	Oklahoma City, Okla.... (Airport.)	Junior meteorologist, promoted to \$2,100 from \$2,000.
Pope, Lyman A.*.....	Jacksonville, Fla.....	Minor observer at \$1,020, temporary appointment terminated; record, very good.
Rice, Warren J.....	Indianapolis, Ind.....	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,100.

*Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Robbins, Minter W.....	Washington, D. C.....	Promoted to scientific aid, SP-5, at \$1,800 from assistant scientific aid, SP-4, at \$1,620.
Rosenholtz, Morris.....	Syracuse, N. Y.....	Junior observer at \$1,440 reduced without prejudice from assistant observer at \$1,620.
Sherrill, Ernest.....	Denver, Colo.....	Appointed minor observer at \$1,020.
Slomowitz, Max.....	Knoxville, Tenn.....	Appointed minor observer at \$1,020.
Smith, Richard J.....	Camden, N. J..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Southwick, Thomas S...	Washington, D. C.....	Promoted to junior meteorologist, P-1, at \$2,000 from observer at \$1,800, with transfer from the field to the departmental service.
Spencer, Robin E.....	Washington, D. C.....	Promoted to meteorologist, P-4, at \$3,800 from assistant meteorologist at \$2,800, with transfer from the field to the departmental service.
Sprong, Clifford.....	Washington, D. C.....	Senior mechanic, Cu-7, at \$1,920, resigned; record, very good.
Starke, Parke P., Jr....	Richmond, Va..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Steffen, Carl F.....	Denver, Colo.....	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Steinberg, Morris.....	Savannah, Ga.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Stewart, Homer J.*.....	Pasadena, Calif..... (C. I. T.)	Appointed agent at \$600, temporarily.
Strickland, Willie J....	Richmond, Va.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Vederman, Joseph.....	Kylertown, Pa.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Weaver, Frank D.....	Davenport, Iowa..... (Moline, Ill., Airport)	Appointed under observer at \$1,260.
White, Bernard N.....	Milwaukee, Wis.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Whitely, Thomas D....	Washington, D. C.....	Promoted to assistant scientific aid, SP-4, at \$1,620 from junior clerk, CAF-2, at \$1,440.
Williams, Philip, Jr....	Reno, Nev..... (Airport.)	Appointed junior observer at \$1,440.
Wood, Thomas J.....	Mobile, Ala.....	Minor observer at \$1,020, resigned; record, good.

*Indicates temporary appointment.

Changes in assignments

Name	Relieved from—	Assigned to—
Alkire, Herbert L.....	Cleveland, Ohio..... (Airport.)	Camden, N. J. (Airport), in charge.
Anderson, James W.....	Dayton, Ohio..... (Wright Field.)	Camden, N. J. (Airport), assistant.
Anderson, Reuben M.....	Keokuk, Iowa.....	Sioux City, Iowa, in charge.
Arnold, Oliver.....	St. Louis, Mo..... (Scott Field.)	St. Louis, Mo. (Airport), assistant.
Arnold, Oliver.....	St. Louis, Mo..... (Airport.)	Davenport, Iowa (Moline, Ill.), in charge.
Brownlee, Willard A....	Montgomery, Ala.....	Harrisburg, Pa. (Airport), assistant.
Cagle, Cecil.....	Montgomery, Ala..... (Maxwell Field.)	Montgomery, Ala., assistant.
Callahan, Lyle B.....	Davenport, Iowa..... (Moline, Ill.)	Harrisburg, Pa. (Airport), assistant.
Cameron, Donald C.....	Chicago, Ill..... (Airport.)	Washington Airport, Arlington, Va., assistant.
Coffin, Leroy A.....	Fairbanks, Alaska.....	Fargo, N. Dak. (Airport), assistant.
Cowdrick, Wendell E...	Cincinnati, Ohio.....	Newark, N. J. (Airport), assistant.
Fulks, Joe R.....	Portland, Oreg..... (Airport.)	Seattle, Wash. (Airport), assistant.
Goodwin, Clyde C.....	Detroit, Mich..... (Airport.)	Camden, N. J. (Airport), assistant.
Greening, Gershom K...	Sioux City, Iowa.....	Phoenix, Ariz., in charge.
Heller, J. Roe.....	Washington, D. C.....	Yellowstone Park, Wyo., assistant.
Hester, Albert H.....	Abilene, Tex..... (Airport.)	Amarillo, Tex., assistant.
Huddle, J. Conrad.....	Davenport, Iowa..... (Moline, Ill.)	Cleveland, Ohio (Airport), assistant.
Hudnall, Jack L.....	Shreveport, La..... (Barksdale Field.)	Shreveport, La., assistant.
Jones, Foster V.....	Nashville Tenn..... (Airport.)	Cleveland, Ohio (Airport), assistant.
Kohl, Francis V.....	Syracuse, N. Y..... (Airport.)	Rochester, N. Y. (Airport), in charge.
Lichtblau, Stephen.....	Portland, Oreg..... (Airport.)	Oakland, Calif. (Airport), assistant.
Moore, Paul L.....	Charlotte, N. C..... (Airport.)	Kylertown, Pa., assistant.
Newell, Francis E.....	Amarillo, Tex.....	Abilene, Tex. (Airport), assistant.
Nickles, J. Harold.....	Savannah, Ga.....	Richmond, Va. (Airport), assistant.
Parker, Harold P.....	San Antonio, Tex..... (Kelly Field.)	San Antonio, Tex., assistant.
Rice, Warren J.....	Milwaukee, Wis.....	Indianapolis, Ind., assistant.
Rosenholtz, Morris.....	Rochester, N. Y..... (Airport.)	Syracuse, N. Y., assistant.
Schmidt, Reinhart C....	Washington Airport.... (Arlington, Va.)	Chicago, Ill. (Airport), assistant.
Smith, Richard J.....	Trenton, N. J.....	Camden, N. J. (Airport), assistant.
Southwick, Thomas S...	Yellowstone Park, Wyo.	Washington, D. C., assistant.
Spencer, Robin E.....	Indianapolis, Ind.....	Washington, D. C., assistant.
Steinberg, Morris.....	Shreveport, La.....	Savannah, Ga., assistant.
Strickland, Willie J....	Washington Airport.... (Arlington, Va.)	Richmond, Va. (Airport), assistant.

Changes in assignments—Continued

Name	Relieved from—	Assigned to—
Thomas, Phillip D.....	Atlanta, Ga..... (Airport.)	Washington Airport, Arlington, Va., assistant.
Tucker, Chester O.....	Kylertown, Pa..... (Airport.)	Keokuk, Iowa, in charge.
Williams, Ernest B.....	Detroit, Mich..... (Selfridge Field.)	Detroit, Mich. (Airport), assistant.



Chief of Bureau.

WEATHER BUREAU TOPICS AND PERSONNEL

AUGUST 1938

DEATH OF WILLIS RAY GREGG

It is with profound sorrow that announcement is made of the death of Dr. Willis Ray Gregg, Chief of the Weather Bureau, on September 14, 1938. His death occurred at Chicago, Ill., where he had been in attendance at an aviation conference called by the Air Transport Association of America, at which members of the recently organized Civil Aeronautics Authority were present.

Dr. Gregg entered the Government service on March 1, 1904, as an assistant observer in the Weather Bureau, at Grand Rapids, Mich. After a service of nearly 3 years at that station and at Cheyenne, Wyo., he was assigned to duty at Mount Weather, Va., which was the headquarters of the research activities of the Weather Bureau. There he remained for 7 years, where he did outstanding pioneer work in explorations of the upper atmosphere by means of kites.

Because of his accomplishments at Mount Weather, Dr. Gregg was brought to the Central Office at Washington in November 1914 as Assistant Chief of the newly organized Aerological Section (now Aerological Division). In 1917 he was made chief of that division and served continuously in that position until his appointment as Chief of the Weather Bureau on January 31, 1934. It was in recognition of his scientific abilities, his international standing as a meteorologist, especially in the field of aerology, as well as his qualifications as an administrator, that the President appointed him to the chiefship of the Weather Bureau, made vacant by the retirement of Dr. Charles F. Marvin.

During his service, prior to becoming Chief of the Weather Bureau, Dr. Gregg was the recipient of a number of important and responsible assignments, among them being (1914) Meteorological Observer to the Smithsonian Expedition to Mount Whitney; (1919) Special Meteorological Advisor at Trepassy, Newfoundland, for the trans-Atlantic flight of the NC seaplanes of the U. S. Navy; also, he served in a similar capacity as the adviser at Mineola, N. Y., on the occasion of the visit of the British dirigible R 84 to New York in 1919.

Dr. Gregg was a frequent contributor to publications on meteorological and aviation subjects and he was the author of two monographs under the title of "Aerological Survey of the United States," and of a book, now in its second edition, titled "Aeronautical Meteorology." At the time of his death he represented the Weather Bureau on numerous

national and international committees, boards, and commissions. Among these are the National Advisory Committee for Aeronautics, of which he was chairman of the executive committee and of the Subcommittee on Meteorological Problems; and the International Meteorological Organization and several commissions thereof, being president of the Commission on Projections for Meteorological Charts and of Regional Commission IV. The latter is composed of directors of the meteorological services of Central and North America and the West Indies. He was also a member of the International Ice Observation Service and the Ice Patrol Service; proposed Airplane Observational Program (chairman), Coordination of Meteorological Service for Aeronautics; and the Daniel Guggenheim Committee on Aeronautical Meteorology.

Dr. Gregg earned a B. A. degree at Cornell and was awarded an honorary degree of ScD. by Norwich University. He was a member of a number of scientific societies and organizations, including the American Meteorological Society (fellow and president at the time of his death); American Association for the Advancement of Science (fellow); Royal Meteorological Society (fellow); Institute of the Aeronautical Sciences, Inc. (fellow); National Aeronautic Society; American Geophysical Union; Washington Academy of Sciences; Washington Philosophical Society, and others.

Dr. Gregg was born January 4, 1880, at Phoenix, N. Y., and was married in 1914 to Mary C. Wall of Berryville, Va., who, with one daughter, survives him.

ACTING CHIEF OF BUREAU

Dr. Charles C. Clark was designated by the Secretary of Agriculture as Acting Chief of Bureau, effective September 15, 1938; Mr. William Weber was also designated to act during Dr. Clark's absence.

AMENDMENT TO CIVIL SERVICE RETIREMENT ACT

The following memorandum recently received from the Office of the Director of Personnel of the Department is published for the information of all Weather Bureau personnel:

The Office of Personnel has received numerous requests from the various Bureaus as to the effect Public No. 701, 75th Cong., will have on the retirement status of employees of the Department.

The act of Congress (Public No. 701, 75th Cong.), approved June 23, 1938, amending section 9 of the Civil Service Retirement Act, as amended, reads as follows:

"Section 9 of the Civil Service Retirement Act, approved May 29, 1930, is amended by striking out that portion of the section following the phrase 'as provided in section 12(a) hereof', and inserting in lieu thereof the following: *Provided, That failure to make such deposit shall not deprive the employee of credit for any past service rendered prior to August 1, 1920, to which he or she would otherwise be entitled; and provided further, That, notwithstanding the failure of an employee to make such deposit, credit shall be allowed for the service rendered, but the annuity of such employee shall be reduced by the amount such deposit would purchase, if made, unless the employee shall elect to eliminate such service entirely from credit under this act.*"

Prior to this amendment any period of service rendered subsequent to August 1, 1920, which service by reason of its temporary, excepted, or unclassified nature was not included in the length of service on which computation of annuities was made, unless deposit was made to cover purchase of same.

Annuities are computed in accordance with the provisions of section 4 of the act of May 29, 1930. This section provided for two plans:

Under plan one, multiply the number of years of service, not exceeding 30, by \$30. If result obtained exceeds three-fourths of the average annual basic salary of the employee for any 5 consecutive years of service, the amount must be reduced to three-fourths of such basic salary. To this amount add the amount of the annuity purchased with the sum credited to the employee's individual account. The sum of the two comprises the total annuity payable.

Under plan two, multiply the average basic salary, not to exceed \$1,600 per annum during any 5 consecutive years of service, by the number of years of service, not exceeding 30, and divide by 40.

For example: A male employee 70 years of age has \$600 in his individual account and 30 years of service. Twelve years of this service was prior to August 1, 1920, 8 years was in temporary, excepted, unclassified or otherwise exempted positions, and 10 years was within the purview of the Civil Service Retirement Act.

PLAN I

\$30 × 30.....	\$900.00	Basic annuity.
\$600 × .1034340*.....	62.06	Purchasable annuity.
Total annuity.....	\$962.06	

PLAN II

\$1600 × 22 ÷ 40.....	\$880.00	Basic annuity computed on accreditable service.
\$30 × 8.....	240.00	Federal contribution for service not purchased.
Total annuity under Public No. 701.....	\$1120.00	

These examples are based on an annual salary rate of not less than \$1,600 per annum for any 5 consecutive years of service. In each individual case the method which will produce the maximum benefit is used.

The amendment of June 23, 1938, grants the employee the Government's portion of the annuity which would have been paid had the purchase of all service which was performed while not within the purview of the Retirement Act been made.

This legislation is not applicable in the case of an employee who has withdrawn the amount to his credit in the retirement fund, which was withheld during a prior period of service. It is mandatory that those deductions be redeposited, inasmuch as the employee will not derive any benefits under the Retirement Act until such deposit is made.

PARTICIPATING IN COMMERCIAL RADIO BROADCASTING

The following memorandum, dated August 20, 1938, from the Acting Director of Information, is given for the information of all Weather Bureau personnel:

This will bring to your attention again a basic principle in the radio broadcasting policy of the Department, namely, that we do not ask advertisers to assume responsibility for broadcasting public information. We depend upon stations and networks. This policy was stated in a memorandum for Chiefs of Bureaus and Offices on September 7, 1937.

* Factor established by Board of Actuaries.
Factor for women in above example would be .0989073.

The reason for bringing it again to your attention is that the National Broadcasting Company has shortened by 15 minutes the "National Farm and Home Hour", a public-service program in which this Department has cooperated for 10 years, and has sold to the Goodyear Tire and Rubber Company the time taken out of the "National Farm and Home Hour". In this time, on northeastern, central, and southwestern stations, the Goodyear Company will present a sponsored program of agricultural information. The Department will continue to have available in the new 45-minute "National Farm and Home Hour" its customary period for presenting information.

It may be that the men who put on the advertising program for the Goodyear Company will approach field officers of your Bureau and ask them to appear on these sponsored programs or to contribute information for them. Therefore, I call to your attention the fact that our radio policy is unaltered. We do not take part in advertising broadcasts.

I suggest that it might be well to remind field officers of your Bureau that the Department radio policy still is unchanged—that Department employees should not appear personally in commercially sponsored radio programs or supply information exclusively for such programs.

Concerning the shortening of the "National Farm and Home Hour", and the sale of time on some of the stations to a commercial sponsor, it should be clearly understood that the Department was simply told that the NBC would take this action, but would reserve time for the Department in the new 45-minute "National Farm and Home Hour".

In connection with the above, see TOPICS AND PERSONNEL, August 1937, page 420, for summary of the information given in the memorandum of September 7, 1937.

UNIVERSITY TRAINING IN METEOROLOGY UNDER CIVIL AERONAUTICS ACT

In accordance with the Civil Aeronautics Act of 1938 (TOPICS AND PERSONNEL, June 1938) the following Weather Bureau employees are to be detailed to educational institutions for advanced training in meteorology during the coming academic year: Dwight L. Randall, of the Central Office, and Aurel J. Knarr, of Kansas City, to Massachusetts Institute of Technology; E. Allen Aime, of New Orleans, and Kenneth S. Norquest, of Portland, Oreg., to California Institute of Technology; J. C. Ballard, of the Central Office, to New York University.

In making these selections the entire personnel of the Weather Bureau was considered, and an effort was made to arrive at the best selection possible in the limited time available and with the information at hand in the personnel files at the Central Office. The selections were made on the basis of educational qualifications, Weather Bureau experience, and the immediate needs of the Bureau.

As a result of the notice in TOPICS AND PERSONNEL, a large number of written applications were received. The time available in which to make the selections for the coming year was not sufficient, however, to allow all employees who might have wished to make application to do so, and for this reason selections were not made exclusively from among those who applied.

It is planned that the entire personnel of the Bureau will be given ample opportunity to apply for the details that may be made to educational institutions next year.

HYDROMETEOROLOGICAL RESEARCH SECTION

Since December 1937 the Hydrometeorological Research Section has been organized and expanded to its present personnel, numbering 19, consisting of meteorologists, hydrologic engineers, draftsmen, scientific aids, and clerical assistant. The section is under the administrative supervision of Merrill Bernard, Chief of River and Flood Division, and Donald C. Cameron is section head.

The unit operates with the aid of a transfer of funds from the War Department and works in close cooperation with the U. S. Engineers.

The principal work of the section is to determine possible maximum storm rainfall on the various river basins embraced by the flood-control program of the U. S. Engineers. This involves studies of the meteorological aspects of all important flood-producing storms that have been recorded in the climatological history of the country and analyzing these in the light of the latest air-mass methods. Related to these are the preparation of mass rainfall curves and isohyetal maps, transposition of storm rainfall within regions of similar climatic characteristics, studies of the effects of melting snow in increasing run-off, and plotting of synoptic charts.

The U. S. Engineers are further cooperating in the extent of delegating much of the work in preparation of mass curves and isohyetal maps to their field offices. These in turn will send representatives to various Weather Bureau Offices to transcribe rainfall data from the several available sources on file. Station officials should cooperate fully in furnishing available desk space and access to all sources of data, i. e., Forms 1001, 1005, 1006, 1009, 1014, 1017, 1024, and 1024A, and assisting whenever possible in the interpretation of data. Forms for the transcription of data will be furnished by the Hydrometeorological Research Section through the U. S. Engineers and will be mailed directly to the district offices.

SWAN ISLAND METEOROLOGICAL STATION

A special meteorological station has been reestablished on Swan Island (latitude $17^{\circ} 22' N$; longitude $83^{\circ} 57' W$) in cooperation with the Navy Department. The Weather Bureau supplied the meteorological instruments and observer; the Navy furnished the radio equipment and operators.

Mr. A. W. Ewing, observer on duty at Floyd Bennett Field Airport, was detailed for the meteorological work.

The station was opened on August 17, 1938, and will be closed on November 15, 1938. Although the arrangements could not be made for the present season as early as was desired, it is hoped that similar plans can be made for subsequent seasons and for the period July 16 to November 15, inclusive.

Three surface observations daily, i. e., 0000, 1200, and 1800, G. C. T.,

are transmitted on precise radio schedule at those hours. These observations are transmitted in the International Ship Code (Universal and Supplemental 3) with an added code word to indicate direction of movement of upper clouds and precipitation.

Pilot-balloon observations are taken twice daily and included with the surface-observation messages transmitted at 0000 and 1200, G. C. T., respectively. Extra and special surface and pilot-balloon observations will be sent when a hurricane is in progress in the western portion of the Caribbean.

NEW UPPER-AIR MAPS B AND C

The Central Office recently had printed revised upper-air charts for plotting airplane and radiometeorograph observations. Instead of having temperature and altitude as coordinates the new maps represent a series of miniature pseudo-adiabatic diagrams, except that all of the lines printed on the regular Pseudo-adiabatic Diagram (Form 1147) do not appear. The coordinates are temperature and pressure, the latter on a scale of $p^{0.288}$, which is very closely a linear scale for altitudes, so that an ascent plotted on one of these graphs appears practically identical with that plotted on an ordinary temperature-height diagram.

To facilitate estimates of altitude, scales based on "standard atmosphere" conditions in both English and metric units are printed along the sides of each graph. In order to simplify the diagram, potential temperature (dry adiabatic) lines are not printed, but the end points of these lines which, for these coordinates are straight lines, are indicated by slanting dashes along the top, bottom, and sides so they may be entered by using a straightedge. Similarly, lines of constant saturation-mixing ratio may be established by laying a straightedge between the corresponding values of the small vertical dashes along the top and bottom of the maps. Owing to the small scale of the charts, no appreciable error is introduced by assuming these to be straight lines. The actual mixing ratios can be determined by multiplying the saturation value by the relative humidity. The curves printed on the diagrams represent the pseudo adiabats.

In entering observations, the temperatures are plotted against pressures. In the revised aerological code only tens and units of pressure are given, the thousands and hundreds being omitted. Familiarity with the pressure-altitude relationships and reference to the scales printed on the sides of the chart will make it possible to supply the missing hundreds by noting the altitudes sent in the coded message. At the Central Office it is the practice to enter the relative humidities and mixing ratios for the significant levels adjacent to the temperature curve. The 24-hour temperature changes are entered in red or blue for each 100-millibar level. Miscellaneous phenomena, such as clouds, etc., are entered at the corresponding pressures; or, if the latter are unknown, at the top of the map.

The new map is intended to replace the Upper-air Map B, previously in use. In addition, these maps have advantages over Form 1147 (Pseudo-adiabatic Diagram) when a large number of ascents have to be plotted. They may be used for plotting energy diagrams (emagrams), calculation of lift required for saturation, and other uses to which Pseudo-adiabatic Diagrams are put.

Any station desiring a supply of these maps for their use can obtain them on requisition from the Central Office. Upper-air Map B contains spaces for 25 apobs and Upper-air Map C contains spaces for 6 apobs and 6 raobs.

COMPUTATION OF SUBSISTENCE ON INDIRECT AUTOMOBILE ROUTE

An employee authorized to use his personally owned automobile on official business is required to travel over the shortest, usually traveled automobile route unless deviation therefrom is necessary in the performance of official business.

Where such employee, for his personal convenience, travels by an indirect route he is entitled to reimbursement for that part of his actual operating expenses in the proportion which the mileage for a direct automobile route bears to the actual mileage traveled, but he is entitled to reimbursement for per diem for only such time as it would have taken him to make the authorized journey by the shortest, most usually traveled railroad route.

The foregoing limitation as to per diem should be considered in connection with contemplated travel by personally owned automobile over an indirect route taken for personal convenience..

PACKING AND CRATING CONTRACTS FOR HOUSEHOLD GOODS

The Central Office has received Procurement Division contracts for packing and crating, including drayage, of household goods for rail shipment during the fiscal year 1939 at the following points:

Kansas City, Mo.	Seattle, Wash.
New York City, N. Y.	St. Paul, Minn.
Minneapolis, Minn.	South St. Paul, Minn.
San Francisco, Calif.	

Therefore, all employees transferring from any of these points indicated should not solicit Weather Bureau bids for this service. However, Weather Bureau bids should be solicited for van shipment and the cost compared with the Procurement Division contract prices, plus transportation costs by rail.

ANNUAL ENCAMPMENT OF VETERANS' ORGANIZATIONS

Personnel Circular No. 68, dated August 6, 1938, from the Acting Director of Personnel, is given hereunder for the information of Weather Bureau employees interested therein.

In accordance with the usual custom, employees of the Department

affiliated with the American Legion, the United Spanish War Veterans, and Veterans of Foreign Wars may be granted annual leave or leave without pay for the purpose of attending the annual conventions of these veterans' organizations, providing that such absence does not interfere with the performance of the necessary work of the Department. The dates of the respective conventions are as follows: American Legion, Los Angeles, Calif., September 19 to 22, inclusive; United Spanish War Veterans, Portland, Oreg., September 11 to 15, inclusive, and Veterans of Foreign Wars, Columbus, Ohio, August 21 to 26, inclusive.

ELECTRIC-LAMP BULBS

It is requested that hereafter all requests for electric-lamp bulbs be submitted on Purchase Requisition (Form 2046), with project sheet attached, instead of on Stores Requisition (Form 2044). This will eliminate all bulb requests on semiannual Stores Requisition and on special stores requisition forms. The Central Office will place orders on the contractors for direct delivery to the field. The reasons for this change in requesting bulbs are to insure earlier delivery and to increase storage space by reducing lamp bulbs as a Central Office stock item. It is believed the breakage will be held to a minimum and, that in most cases, lower prices will be obtained by ordering a 12-month supply.

Action will be taken to furnish 110- and 115-volt lamps requested on semiannual requisitions now on hand at the Central Office for the 6 months ending June 30, 1939. The voltage and wattage must always be stated.

Requisitions for bulbs must not be submitted when a lease specifies that light is furnished by the lessor.

It is recommended that on July 1, 1939, a Purchase Requisition be submitted for a year's supply, and thereafter at the beginning of each succeeding fiscal year.

All lamp bulbs must be requested through the Central Office, as indicated in existing instructions, the only change being made in submitting Purchase Requisitions instead of Stores Requisitions at a specified time.

All articles in TOPICS AND PERSONNEL are hereby amended. (See TOPICS AND PERSONNEL for April 1938, page 43.)

ANTIFREEZE CONTRACT

The Department has a contract for antifreeze compound for automobile use until February 15, 1939. Any station contemplating a purchase of not less than a case lot of 6 gallons should contact the Central Office for information. The contract does not appear to meet requirements on account of the minimum-quantity basis. A supply of 6 gallons would last one truck several years.

EIGHT-HOUR LAW

On August 23, 1938, a circular entitled "Eight-hour Law—Provisions of the Act of June 19, 1912, 37 Stat. 137 (Eight-hour Law), to Be Included in All Public Contracts Which May Involve the Employment of Laborers or Mechanics" was mailed to all Weather Bureau Offices and Airport Stations. Any station not receiving a copy of this circular should request one from the Central Office immediately.

CERTIFICATIONS IN SUPPORT OF INVOICES OR PUBLIC VOUCHERS

A circular letter entitled "Certifications in Support of Invoices or Public Vouchers for Purchases and Services Other Than Personal", dated August 30, 1938, was mailed to all first-order and airport stations on September 2, 1938. Any station not receiving a copy should notify the Central Office immediately.

PURCHASE OF HYDROGEN GAS

A supplemental circular, dated August 22, 1938, to circular entitled "Purchase of Hydrogen Gas at Field Stations During the Fiscal Year 1939", dated June 25, 1938, was mailed to all Weather Bureau Offices and Airport Stations on August 26, 1938. Any station not receiving this supplemental circular should notify the Central Office immediately.

FIRST-ORDER AIRPORT STATIONS OPENED

A first-order Weather Bureau Airport Station was opened at Richmond, Va., on July 11, 1938. This station, manned by five commissioned Weather Bureau personnel, will operate on a 24-hour basis, rendering airway, 6-hourly, and pilot-balloon observations.

A first-order Weather Bureau Airport Station was opened at Harrisburg, Pa., on August 2, 1938. This station, manned by five commissioned Weather Bureau personnel, will render airway service on a 24-hour basis. Pilot-balloon observations will begin about October 1, 1938.

MOUNTING FOR MINIMUM THERMOMETER

The Indianapolis airport uses clamps of 7-inch length metal, such as the back of an old thermometer in the Townsend support, then slips over its ends blocks of sheet rubber about $\frac{1}{8}$ inch in thickness, in each of which two parallel slots about $\frac{1}{2}$ inch apart have been cut—one slot to slip over the section of old back; the other slot to receive the minimum thermometer—which is then held about $\frac{1}{2}$ inch forward of its old position. Successful elimination of trouble with shifting index of minimum thermometer, due to vibration, is reported to result. The method is authorized, particularly as a temporary measure, pending the installation of a post mounting. Two blocks of thick, live rubber, 1 inch wide by $1\frac{1}{4}$ inches long, are the only materials required.

IDENTIFICATION PASS CARDS

Pass cards for use in emergencies when the identification of Department employees is required for the performance of duty, such as entering guarded areas during times of flood, will be supplied on request of officials in charge when conditions warrant. Requests should be made by wire, if necessary.

DITTO DUPLICATING ROLLS (FILM)

It is requested that hereafter all requests for ditto duplicating rolls (film), large or small size, be submitted on a Purchase Requisition (Form 2046), with project sheet attached, instead of on Stores Requisition (Form 2024). These rolls should not be requested in large quantities on account of deterioration. The Central Office will place orders on the contractor for direct delivery to the field, and requisitions should be forwarded in ample time to permit necessary action in drawing the order and allowing time for delivery. The Government contract now includes delivery to any point in the United States.

The Purchase Requisition should always state the model and serial number of the ditto machine and the width of the roll desired.

OIL ON BAROGRAPH CLOCKS

It has recently come to the attention of the Central Office that an excessive amount of oil has been applied to barograph clocks. In some cases the pallet was found covered with oil and the clock stopped by reason thereof. When a clock maker was called in all he had to do was to remove the excess oil to put the clock in good running condition. It is hardly to be expected that persons inexperienced in such work should be able to oil a clock successfully.

It has been reported also that some barographs are being operated in a position subject to direct sunshine. It should be obvious that such treatment is too severe and that in such a position increased heating within the case is likely to result in thinning the oil so that it will flow away from the bearings, and also will result in spurious pressure records. While the instruments have been unusually well compensated for temperature, it is considered unfair to any pressure instrument to subject it unnecessarily to violent extremes of temperature.

USE OF DASH POT ON MAGNIFYING BAROGRAPHS

Experience has shown the necessity of damping the oscillation of the pen of the magnifying barograph by using the dash pot. Stations not now employing the dash pot are directed to insert the dash-pot liquid, using great care not to spill any of the liquid on the outside where it may collect dust and result in an unsightly appearance.

The dash pot serves to check response not only to vibration but also to minute pressure fluctuations of the order of several thousandths of an

inch within a period of 20 seconds or so. These are real pressure changes that can not be properly called vibrations. In the older one to one ratio barographs they are evidenced in the form of a thickening of the trace on the chart, particularly during the warmer period of the day, and nothing can be done with them, but in the magnifying barograph they can be damped by use of the dash pot.

PURCHASE OF PRISON-MADE GOODS

Under date of August 19, 1938, the Federal Prison Industries, Inc., notified the Bureau that it would issue its new catalog within the next 30 days. A list of all Weather Bureau Offices and Airport Stations was sent to the Federal Prison Industries, Inc., August 30, 1938, and a catalog will be mailed to each station direct by the Federal Prison Industries, Inc.

In the meantime, all stations not having a copy of the "Schedule of Products Made in Federal Penal and Correctional Institutions", revised September 1937, should request one from the Central Office immediately. The 1937 schedule should be used until receipt of the new catalog.

REQUISITIONS FOR SUPPLIES

It is noted, by receipt of special requisitions for flags and teletype tape, that stations are permitting their supply to run so low that urgent requests are being forwarded. These supplies should be requested on semiannual requisitions to avoid any emergency requests at this time of year. The responsibility for supplies on hand must necessarily fall upon the stations. Paragraph 111, Station Regulations, is hereby amended to have all requests hereafter for flags submitted on semiannual requisitions.

CORRECTIONS BY MAIL FOR SGL D&A REPORTS

It is believed that, to a considerable extent, there is noncompliance, especially outside of the Washington forecast district, with the provisions of paragraph 12, Weather Code (Revised), 1936. This instruction requires the forwarding of Form 8069A to the appropriate forecast center as well as the Central Office in all cases of error in observations transmitted through the SGL D&A system, including those to which attention is drawn by inquiry slips from the Central Office.

It is desired that appropriate action be taken by officials in charge of first-order stations and those having supervision of second-order stations to assure observance of the rule in question.

PILOT-BALLOON REPORTS FROM SEATTLE

Arrangements have recently been made whereby the pilot-balloon reports from the Naval Air Station at Sand Point Field, Wash., will be substituted for those from the Seattle, Wash., Airport Station when no observation can be made at the latter point and one is available from the former. The Sand Point (NSP) reports will, therefore, appear occasionally in the teletype sequences instead of the Seattle (SA) reports. All interests concerned should be notified of this arrangement.

REQUISITIONS

It is noted that a number of stations request stock supplies—material and equipment—and authority for expenditures by submitting a letter of explanation and not attaching a Stores or Purchase Requisition. Also, that in some instances a Form 4020b is being submitted for supplies. This Form 4020b is to be used for a request for forms, bills of lading, etc., and *not for stock supplies*. It has no receipt form for invoicing purposes. Care should be taken to forward proper forms in each case.

POSTING OF BAROMETRIC CHARACTERISTICS ON MICROBAROGRAPHS

The official in charge at Augusta, Ga., has arranged a card on the inside of the right side of the cover of the new microbarographs which reads as follows:

Sheet changed on 1st, 5th, 9th, 13th, 17th, 21st, 25th, and 29th.

BAROMETER SAME OR HIGHER THAN THREE HOURS PREVIOUS TO OBSERVATION

Vowel: Rising, then falling.

B: Rising, then steady.

D: Unsteady.

F: Steady or rising steadily.

G: Falling or steady, then rising.

BAROMETER LESS THAN THREE HOURS PREVIOUS TO OBSERVATION

M: Falling, then rising.

N: Falling, then steady.

R: Unsteady.

S: Steadily falling.

T: Steady or rising, then falling.

This arrangement has proved of great convenience at the Augusta station in evaluating readings from the barographs and it is, therefore, passed along to all concerned with the thought that they may wish to make similar arrangements in connection with their barographs and evaluating the readings therefrom.

EXTENSION TO COMPUTING TABLES

An extension of 20 minutes (40 to 60) to W. B. No. 1048 (Tables for Computing Horizontal Distance of Pilot Balloons) was recently mailed to all pilot-balloon stations. Any such stations not receiving copies should notify the Central Office immediately.

NEW EDITION OF "CLOUD FORMS"

The third edition of "Cloud Forms" has been distributed to stations, in accordance with the item in TOPICS AND PERSONNEL of May 1938. Additional copies may be secured on requisition to the Central Office.

LOCATION OF LARGE-BORE BAROMETERS DESIRED

It is desired to learn locations within the Bureau of mercurial barometers of larger bore than the station and extra barometers widely used. The cisterns are about $2\frac{1}{2}$ inches outside diameter and the brass cases about $1\frac{1}{8}$ inches outside diameter. It is known that such barometers are at Boston, Philadelphia, and Chicago.

Report is desired only from stations that have such an instrument, and it should give serial number, maker, condition, whether it is in its own box, and whether or not regularly used as station or extra barometer.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of August 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Allen, Robert S.....	Atlanta, Ga.....	Appointed junior observer at \$1,440.
Anderson, James W.....	Philadelphia, Pa..... (Camden, N. J.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Armstrong, Harry.....	Jacksonville, Fla.....	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,000.
Asbell, Frank M.....	Rock Springs, Wyo.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Ashler, Daniel.....	Kylertown, Pa.....	Junior observer at \$1,440, resigned; record, unsatisfactory.
Baird, Eldon C.....	Davenport, Iowa..... (Moline, Ill.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Barnes, George H.....	Seattle, Wash.....	Designation changed to assistant observer and radio operator at \$1,620 from radio operator at the same salary.
Bowers, Paul J.....	Charlotte, N. C..... (Airport.)	Appointed under observer at \$1,260.
Brownlee, Willard A....	Harrisburg, Pa..... (Airport.)	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Bush, Donald A.....	Atlanta, Ga..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,500.
Callahan, Lyle B.....	Harrisburg, Pa..... (Airport.)	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Calvert, Jack H.....	Reno, Nev.....	Promoted to observer at \$1,800 from assistant observer at \$1,680.
Chappell, Edward H....	Anchorage, Alaska.....	Promoted to assistant meteorologist at \$3,200 from junior meteorologist at \$2,000.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Clark, Kenneth R.	Rock Springs, Wyo. (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Connor, Mrs. Margaret G.	Washington, D. C.	Promoted to assistant clerk-stenographer, CAF-3, at \$1,620, from junior clerk-stenographer, CAF-2, at \$1,440.
Cowdrick, Wendell E.	New York, N. Y. (Newark, N. J.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Culman, Robert N.	San Francisco, Calif. (Oakland.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Elford, Robert C.	San Francisco, Calif. (Oakland.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Ellison, Eckley S.	Lakeland, Fla.	Meteorologist, promoted to \$4,000 from \$3,800.
Epstein, Lester.	Detroit, Mich.	Appointed junior observer at \$1,440.
Ewers, Robert J.	Lander, Wyo.	Appointed junior observer at \$1,440.
Fleming, Thomas P., Jr..	Little Rock, Ark.	Appointed minor observer at \$1,020, pending certification of eligibles.
Ferrara, Angelo J.	Washington, D. C.	Senior engineering draftsman, SP-6, at \$2,000, resigned; record, very good.
Fuqua, William J.	Mobile, Ala.	Appointed minor observer at \$1,020.
Gerber, Harry M.	Pittsburgh, Pa. (Airport.)	Assistant meteorologist, promoted to \$2,700 from \$2,600.
Gibbons, Harold M.	Winslow, Ariz.	Junior observer at \$1,440, resigned; record, good.
Gilbert, Clarence G.	Washington, D. C.	Designation changed to scientific aid, SP-5, at \$1,800 from observer at the same salary, with transfer from the field to the departmental service.
Gilman, Charles S.	Washington, D. C.	Promoted to assistant scientific aid, SP-4, at \$1,620 from junior observer at \$1,440, with transfer from the field to the departmental service.
Goldberg, Ralph*.	New York, N. Y.	Minor observer at \$1,020, temporary appointment terminated; record, very good.
Goldstein, William D.	Kylertown, Pa.	Appointed junior observer at \$1,440.
Goodwin, Clyde C.	Philadelphia, Pa. (Camden, N. J.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Grace, Joseph A.	Davenport, Iowa. (Moline, Ill.)	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Gurman, Tzierel, Miss.	Washington, D. C.	Appointed junior clerk-stenographer, CAF-2, at \$1,440, by transfer from the Farm Credit Administration.
Hamilton, Legare.	Spartanburg, S. C.	Appointed junior observer at \$1,440.

* Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Hamrick, Andrew M....	Kansas City, Mo.....	Promoted to meteorologist at \$3,800 from associate meteorologist at \$3,500.
Heaton, Lee W., Jr....	North Platte, Nebr.....	Appointed minor observer at \$1,020.
Hemmersbaugh, Anthony C.	Harrisburg, Pa..... (Airport.)	Promoted to junior meteorologist at \$2,100 from senior observer at \$2,000.
Hess, Mrs. Iva B.....	Washington, D. C.....	Promoted to clerk-stenographer, CAF-4, at \$1,800 from assistant clerk-stenographer, CAF-3, at \$1,680.
Hope, James J.....	Washington, D. C.....	Principal telegrapher, CAF-6, at \$2,600, restored to duty from leave without pay, effective August 6, 1938.
Huddle, J. Conrad.....	Cleveland, Ohio..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
James, Charles E.....	Washington, D. C.....	Appointed senior engineering draftsman, SP-8, at \$2,000, by transfer from the Forest Service and transfer from the field to the departmental service.
Johnson, Warren O....	Jacksonville, Fla.....	Junior meteorologist, promoted to \$2,200 from \$2,000.
Karpov, Boris G.....	Minneapolis, Minn.....	Junior observer at \$1,440, resigned; record, excellent.
Kerr, Wallace M.....	San Antonio, Tex.....	Junior observer at \$1,440, restored to duty from leave without pay, effective August 23, 1938.
Keyser, John J.....	Juneau, Alaska.....	Promoted to junior meteorologist at \$2,500 from observer at \$2,160.
Kohl, Francis V.....	Rochester, N. Y.....	Promoted to junior observer at \$1,440 from under observer at \$1,200.
Koonts, I. Arden.....	Davenport, Iowa..... (Moline, Ill.)	Junior observer, promoted to \$1,500 from \$1,440.
Lee, Glenn M.....	Tatoosh Island, Wash..	Appointed junior observer at \$1,440.
McDonough, Elven S....	Davenport, Iowa.....	Junior observer, promoted to \$1,500 from \$1,440.
Magee, Arthur R.....	Topeka, Kans.....	Assistant observer at \$1,620, granted leave without pay from September 9, 1938, to the termination of December 8, 1938.
Magill, John W.....	Pittsburgh, Pa..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Maher, Fred R.....	Pittsburgh, Pa..... (Airport.)	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Marth, George R.....	Dubuque, Iowa.....	Promoted to observer at \$1,800 from assistant observer at \$1,680.
Martin, George C.....	Little Rock, Ark.....	Promoted to junior observer at \$1,440 from minor observer at \$1,020.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Mathews, Donald A.....	Fresno, Calif.....	Appointed minor observer at \$1,020.
Merrill, Donald C.....	Reno, Nev.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Miller, Emmett H.....	Atlanta, Ga..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Mitchell, George S.....	New York, N. Y.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Moore, Melvin W.....	Meridian, Miss.....	Promoted to observer at \$1,800 from assistant observer at \$1,680.
Moore, Paul L.....	Kylertown, Pa.....	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Murray, Robert S.....	Washington Airport.... (Arlington, Va.)	Promoted to junior meteorologist at \$2,200 from senior observer at \$2,000.
Nelson, Edward W.....	Seattle, Wash.....	Appointed junior observer at \$1,440.
Newell, Francis E.....	Abilene, Tex..... (Airport.)	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Nickles, J. Harold.....	Richmond, Va..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,680.
Oak, Wilbur W.....	Cleveland, Ohio.....	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,000.
Osmun, James W. W....	New York, N. Y.....	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,000.
Piippo, Arthur F.....	Sault Ste. Marie, Mich..	Promoted to assistant meteorologist at \$2,600 ¹ from junior meteorologist at \$2,300 ¹ .
Pinder, Robert W., Jr...	Miami, Fla..... (Airport.)	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Rennels, Ivory P.....	Marshall, Mo.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Reynolds, Hubert W....	Dodge City, Kans.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Rhoades, Charles R.....	Cheyenne, Wyo..... (Airport.)	Appointed junior observer at \$1,440 by transfer from the Department of the Interior.
Rogers, William J.....	Sacramento, Calif..... (Airport.)	Appointed under observer at \$1,260.
Rohrer, Carl P.....	Washington, D. C.....	Appointed relief watchman (guard) at \$3 per day, wac., not to exceed \$45 per month.
Russler, Ben H.....	New York, N. Y..... (Newark, N. J.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Schick, Charles O.....	Oklahoma City, Okla... (Airport.)	Promoted to associate meteorologist at \$3,200 from assistant meteorologist at \$3,100.

¹ Includes allowance of \$240 for quarters, fuel, and light.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Schmidt, Reinhart C....	Chicago, Ill. (Airport.)	Associate meteorologist, promoted to \$3,300 from \$3,200.
Sisk, William O.	Brownsville, Tex.	Junior observer at \$1,440, name changed on rolls from William Orna Sisk.
Temperley, John K.	Trenton, N. J.	Appointed junior observer at \$1,440.
Thomas, Phillip D.	Washington Airport.... (Arlington, Va.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Tucker, Chester O.	Keokuk, Iowa	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Warren, Max H.*.	Miami, Fla.	Appointed minor observer at \$1,020, pending certification of eligibles.
Weaver, Frank D.	Davenport, Iowa.	Under observer at \$1,260, resigned; record, served but a short time.
Weiss, Thomas M.	Denver, Colo.	Junior observer at \$1,440, granted leave without pay from August 3, 1938, to termination of June 15, 1939.
Whittelsey, Chauncey A.	North Platte, Nebr.	Assistant observer at \$1,680, name changed on rolls from Chauncey A. Whittelsey, Jr.
Wilgus, Russell V.	Joliet, Ill.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440, and name changed on rolls from Russell Vann Wilgus.
Wozencraft, Jean P.	Cincinnati, Ohio (Airport.)	Junior meteorologist at \$2,000, resigned; record, very good.
Young, Floyd D.	Pomona, Calif.	Senior meteorologist, promoted to \$4,800 from \$4,600.

*Indicates temporary appointment.

Changes in assignments

Name	Relieved from—	Assigned to—
Anderson, O. Kenneth..	San Francisco, Calif.... (Oakland.)	Fairbanks, Alaska, in charge.
Asbell, Frank M.	Lander, Wyo.	Rock Springs, Wyo., assistant.
Carpenter, Archer B.	Portland, Oreg. (Airport.)	Seattle, Wash. (Airport), assistant.
Chappell, Edward H.	Washington Airport.... (Arlington, Va.)	Anchorage, Alaska, in charge.
Cheney, Werlen F.	Portland, Oreg. (Airport.)	Seattle, Wash. (Airport), assistant.
Culnan, Robert N.	Sacramento, Calif. (Airport.)	San Francisco, Calif. (Oakland Airport), assistant.
Cameron, Donald C.	Washington Airport.... (Arlington, Va.)	Washington, D. C., assistant.
Dannheiser, Charles L.	South Bend, Ind. (Airport.)	Camden, N. J. (Airport), assistant.
Elliott, Hubert A.	Portland, Oreg. (Airport.)	Seattle, Wash. (Airport), assistant.

Changes in assignments—Continued

Name	Relieved from—	Assigned to—
Gilbert, Clarence G.....	Pittsburgh, Pa..... (Airport.)	Washington, D. C., assistant.
Gerber, Harry M.....	Cleveland, Ohio..... (Airport.)	Pittsburgh, Pa. (Airport), in charge.
Gilman, Charles S.....	Little Rock, Ark.....	Washington, D. C., assistant.
Hemmersbaugh, Anthony C.	Pittsburgh, Pa..... (Airport.)	Harrisburg, Pa. (Airport), in charge.
Horn, Victor T.....	Portland, Oreg..... (Airport.)	Seattle, Wash. (Airport), as- sistant.
Maher, Fred R.....	Indianapolis, Ind.....	Pittsburgh, Pa. (Airport), as- sistant.
Pierce, Lawrence C.....	Spartanburg, S. C.....	Harrisburg, Pa. (Airport), as- sistant.
Rennels, Ivory P.....	Miami, Fla..... (Airport.)	Marshall, Mo., (Airport), in charge.
Seebode, Alvin F.....	Marshall, Mo..... (Airport.)	Harrisburg, Pa. (Airport), in charge.
Smith, Julius C.....	Portland, Oreg..... (Airport.)	Seattle, Wash. (Airport), in charge.
Striker, Edmond F.....	Joliet, Ill..... (Airport.)	South Bend, Ind. (Airport), in charge.
Sachse, Glen V.....	Kansas City, Mo..... (Airport.)	Sault Ste. Marie, Mich., assist- ant.
Strachila, Joseph J.....	Portland, Oreg.....	Ely, Nev. (Airport), assistant.
Weirauch, Harry N.....	Portland, Oreg..... (Airport.)	Seattle, Wash. (Airport), as- sistant.
Wilgus, Russell V.....	Cheyenne, Wyo..... (Airport.)	Joliet, Ill. (Airport), in charge.
Woodward, Wendell H..	Portland, Oreg..... (Airport.)	Seattle, Wash. (Airport), as- sistant.

WEATHER BUREAU TOPICS AND PERSONNEL

SEPTEMBER 1938

ACKNOWLEDGMENT OF EXPRESSIONS OF SYMPATHY INCIDENT TO THE DEATH OF DR. WILLIS RAY GREGG

The staff at the Central Office desires to convey to the entire personnel of the Bureau its deep appreciation of the many expressions of sympathy received in connection with the death of Dr. Willis Ray Gregg, Chief of Bureau. All of these have been brought to the attention of Mrs. Gregg, and she, likewise, is deeply grateful and appreciative.

It is deemed appropriate to mention that Mrs. Gregg gave the Bureau the privilege of providing the floral covering for the casket, and the numerous contributions received from the personnel in the field and at the Central Office for floral offerings were used in providing a very beautiful blanket of flowers for the purpose. In a note received from Mrs. Gregg, she states that the floral tribute was an intimate, fitting, and beautiful touch, and asks that her thanks be extended to the entire personnel for the wonderful sympathy and help that has been tendered her.

EIGHT-HOUR LAW AND CERTIFICATES IN SUPPORT OF INVOICES OR VOUCHERS

Purchase Requisitions and bids are being received without reference to the 8-hour law, and certificates, as called for in circulars from the Chief of Business Administration, dated August 22 and August 30, 1938, respectively. The Department is refusing to act upon bid solicitations bearing no reference to these provisions, and, furthermore, to bids submitted without the accompanying sheets of provisions in question. Therefore, it is necessary to attach the sheets to the bids, when issued, and to require that the bidder return the sheets with his bid. No action can be taken by the Central Office unless these instructions are strictly adhered to.

Purchase Requisitions submitted for less than \$50 must also bear a reference to the provisions and a remark as to whether or not the vendor is agreeing to the provisions.

The sheets in question can be obtained from the Central Office upon the rendering of Form 4020b.

CERTIFICATIONS IN SUPPORT OF INVOICES OR VOUCHERS

Station officials are requested to see that the applicable certifications required under instructions in Budget and Finance Circular No. 84, dated June 27, 1938, are placed on invoices or vouchers covering payment for supplies or services other than personal. Particular attention

is invited to the necessity for adding to the certification in the first certificate on Standard Form No. 1034—Rev. (when voucher is signed by the payee in that certificate in lieu of certified bill) the words "and that State and local sales taxes are not included in the amount billed". The clause "and that tax-exemption certificates have been received", which appears in Certificate No. 1 in Budget and Finance Circular No. 84, has been eliminated under instructions contained in Supplement No. 1, dated July 21, 1938, and is, therefore, not now required. It will be noted that the clause has been omitted from Certificate No. 1 in the sheets referred to in the circular of Chief, Business Administration, dated August 30, 1938. Supplement No. 1, dated July 21, 1938, is not available for distribution, but is not of interest to station officials, except as to the change in Certificate No. 1.

Attention is also invited to the fact that the certificate in paragraph 8 of Budget and Finance Circular No. 84 is required for all accounts covering metered service. Use of that certificate will eliminate the necessity for compliance with instructions relative to use of the additional certificate, to the effect that there has been no change in the rates charged the general public since the last prior payment under the contract referred to in the article entitled "Vouchers Covering Service Under Public-Utility Contracts for Indefinite Periods", on page 244 of the May 1936 number of this publication, which instructions are hereby revoked.

The required certificates must be made by the payees and not by station officials, i. e., placing of the additional certificate on a voucher, supported by an invoice which is incomplete as to certification, will not answer the requirements. The certifications must appear on the bills or on the vouchers when signed in the first certificate by payees and not on separate statements. Vouchers which are not correctly certified or not supported by correctly certified invoices will in the future have to be returned to stations.

SERVICE TO GENERAL PUBLIC BY AIRPORT STATIONS

Complaint has been made that officials in charge of some city offices are in the habit of asking that forecasts and other information, which also are available to city offices, be telephoned to radio stations, newspapers, and other interests from the airport as a convenience in relieving the city offices of such work. Airway stations are established primarily for the purpose of rendering service to aviation along the airways. Requests of the kind described interfere seriously with the airway service.

It is recognized that in some instances cooperation of the airway stations in the telephoning of the information to radio stations, newspapers, and others may be justified, but such arrangements should not be made without the facts being first submitted to and approved by the Central Office. This instruction should not be considered as prohibiting the rendering of emergency service.

In order that the records of the Central Office may be cleared, it is desired that officials in charge of airport offices advise the Central Office (through the officials in charge of the city offices) of all the stations where regular telephone service to the newspapers, radio stations, and others, including a brief statement as to the character of the service, and the time that it is being performed, etc.

PRACTICE FORECASTS

Application for authority to make practice forecasts for official verification during the calendar year 1939 will be received until November 15, 1938. First and second choice of groups should be indicated from the following list, showing grouping of States for practice-forecast purposes:

- Group 1.—Ohio and Western New York.
- Group 2.—Iowa and Minnesota.
- Group 3.—Louisiana and Arkansas.
- Group 4.—Colorado and New Mexico.
- Group 5.—Washington and Oregon.
- Group 6.—Northern California and Southern California (will not be used during 1939).
- Group 7.—North Carolina and South Carolina.
- Group 8.—Indiana and Lower Michigan.

Applicants should have attained the grade of assistant observer and have served at least 18 months as a commissioned employee in the Weather Bureau. Applications should include a statement indicating studies pursued in preparation for this work.

Applicants whose hours of duty preclude their completing practice forecasts before noon (E. S. T.) should state in their application letters the earliest time (E. S. T.) at which they can be completed with regularity, which must not be later than 4 p. m. (E. S. T.)

PREPARATION OF PAY ROLLS

Station officials are requested to include on the first pay roll covering the salary of a commissioned employee, or wages of a noncommissioned employee, complete information under a new appointment, promotion, etc., by entry thereon of information as follows:

(1) APPOINTMENTS OR REINSTATEMENTS BY THE SECRETARY OF AGRICULTURE.

Appointed (or reinstated) by the Secretary of Agriculture-----, 19--;
 -----, at \$----- per annum, effective-----, 19--;
 (Grade.) (Rate.) (Date.)
 appointment paper dated-----; S.-----, L.-----;
 (Date at top of formal paper.)
 oath of office dated-----; entered on duty-----.
 (Date.)

(Necessary changes should be made in the wording when the appointment is on other than a per-annum basis.)

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(2) PROMOTIONS OR CHANGES IN STATUS BY THE SECRETARY OF AGRICULTURE.

Promoted (or designation changed, etc., as the case may be) by the Secretary of Agriculture from _____, at \$_____ per annum to _____, at \$_____ per annum, effective _____, 19__; paper dated _____; S. _____, L. _____; entered on duty at new rate _____.

(Title.) (Grade.) (Date.) (Date at top of formal paper.) (Date.)

(If the change involves a deduction for quarters, fuel, and light, the additional information should be supplied.)

(3) INFORMAL APPOINTMENTS OF NONCOMMISSIONED EMPLOYEES BY SUPERVISING STATION OFFICIALS.

Appointed _____, at \$_____ per _____ effective _____, 19__, by designation of the supervising station official under the provisions of paragraph I (6) of Schedule A of Civil Service Rules and Regulations. Service began on _____, 19__; appointment is informal; no appointment paper is issued.

(Designation.) (Rate.) (Time unit.) (Date.)

(4) When the change in status involves a promotion from a rate not in excess of \$540 per annum to a rate in excess of that amount, the wording under (1) above should be used with the addition of the following:

Prior to _____, the employee served as _____, at \$_____ per _____ under informal appointment by designation of the supervising station official under paragraph I (6) of Schedule A of Civil Service Rules and Regulations.

(Date.) (Title of position held under informal appointment.) (Rate.) (Time unit.)

Station Regulations will be amended to give effect to the above.

USE OF TIPPING-BUCKET GAGE IN WINTER

Rainfall-intensity studies recently undertaken in connection with River and Flood work have disclosed a considerable unnecessary loss of tipping-bucket rain-gage record at several first-order stations during the winter months. Station officials are reminded that the tipping-bucket gage should be kept in use at *all* times, for parts of storm periods as well as for full durations, except when there is danger of damage to the instrument by freezing.

ISENTROPIC COMPUTATION CHARTS

All Weather Bureau Airport Stations have been furnished isentropic computation charts, together with a reprint of Dr. H. R. Byers' article, "On the Thermodynamic Interpretation of Isentropic Charts", from the Monthly Weather Review, March 1938, and a description of the use of

these charts. Any regular or airport station not receiving the above material should notify the Central Office. It is highly desirable for station personnel to keep abreast of these modern phases of air-mass-analysis methods, so far as practicable, so that they can be intelligently discussed with any who might make inquiries in regard thereto. In this connection attention is also called to Mr. J. W. W. Osmun's paper, "Introductory Discussion of the Isentropic Chart".

SPECIAL STORES REQUISITIONS

In order to expedite shipments of stock supplies and equipment, it is recommended that separate Stores Requisitions be submitted for general office supplies and instrumental supplies and equipment. It is often necessary to route certain Stores Requisitions to various Central Office project leaders for consideration, and such requests carrying more than one class of items are subject to delay in handling. It is also noted that special Stores Requisitions of general office stock supplies can be reduced materially in number by including the items in semiannual requisitions. This action will also expedite the issuance of field supplies. See paragraph 111, Station Regulations.

DISCONTINUANCE OF SGL D&A REPORTS

SGL D&A reports from Monroeville, Ala., were discontinued on September 16, 1938, and reports from Garrison, N. Dak., will be discontinued with the termination of October 9, 1938.

The 7:30 a. m. and 7:30 p. m. (E. S. T.) observations taken at the 6-hourly station at Greenville, N. C., will not be distributed in the SGL D&A system, as indicated in TOPICS AND PERSONNEL of January 1937.

NOTICE TO CEASE FROST WARNINGS

Attention is called to paragraph 75, Weather Code (Revised), 1936, directing station officials immediately to notify the appropriate forecast center when, in the fall, frost warnings are no longer needed in the vicinity of their stations. Notification to cease warnings should be by letter if delivery can be effected within 24 hours; otherwise, by telegraph. Card forms should not be used for this purpose.

INTERNATIONAL CLOUD ATLAS

An additional supply of 500 copies of the "International Atlas of Clouds and of States of the Sky," abridged edition for use of observers, has been received from Paris. A limited supply of the abridged edition was previously received and distributed to selected stations. All other first-order stations are now being furnished with one copy each. Certain supervisory offices will be supplied with additional copies for issue to designated substations. Instructions will be issued shortly for guidance of employees in studying the atlas preparatory to use of the International Code in reporting cloud observations.

PROJECT SHEETS FOR ACCOUNTING PURPOSES

It will be necessary for station officials to forward a project sheet with each Purchase Requisition, as called for in circular letter of the Acting Chief of Bureau, "Project Accounting," dated July 24, 1935.

All Purchase Requisitions hereafter submitted without a project sheet will be returned to the station for the inclosure.

TRANSFER OF PILOT-BALLOON WORK

On September 30, 1938, pilot-balloon observations were discontinued at the Newark, N. J., Airport Station and the work transferred to the Floyd Bennett Airport Station at Brooklyn, N. Y. The same schedule of observations and reports formerly followed at Newark will be continued at Floyd Bennett Field.

VOUCHERS COVERING REPAIRS TO WEATHER BUREAU PROPERTY

Station officials are reminded of the necessity for compliance with instructions contained in paragraph 100 (c) (4) of Station Regulations. Failure to indicate on vouchers that the property repaired belongs to the Weather Bureau results in delay in settlement.

ARRANGING FORM 1001 FOR MAILING

Most of the stations are using staples to fasten together the pages of Form 1001. This manner of sending in the completed Form 1001 is not in accordance with instructions contained in paragraph 6 of "Instructions for Preparing Meteorological Forms".

It is desired that all pages of this form be separated, placed in the original paper cover, arranged chronologically, and fastened together with a Dennison, or similar, paper fastener.

ERROR IN TABLES NO. 1043

An error has been found in Tables No. 1043 for the 44th minute (altitude, 8010); angle, 17.8 degrees. The distance value is given as 24,590 while it should be 24,950. All stations having copies of these tables are requested to correct them accordingly.

FIRST-ORDER STATIONS OPENED

First-order Weather Bureau Offices, primarily for airway service, were opened at Anchorage, Alaska, and Ely, Nev., on August 20 and 24, 1938, respectively. The personnel at the former station comprises two and at the latter three Weather Bureau commissioned men. Each station renders airway meteorological service, including pilot-balloon observations.

CLOUD FORMS

A copy of the third edition of "Cloud Forms", W. B. No. 956 (Revised, 1938), was mailed to all regular and airport stations on September 21, 1938. Any station not receiving a copy should notify the Central Office.

APPLICATIONS FOR LEAVE

Requests for annual leave for the calendar year 1938, and extending into the calendar year 1939, should be submitted as separate applications for each year.

DEPARTMENT REGULATIONS

Copies of amendments to Department Regulations Nos. 63, 64, and 65, paragraphs 8318, 2812, and 2561-2562, respectively, were mailed to all regular and airport stations on September 21, 1938. Any station not receiving a copy of each should notify the Central Office.

CORRECTION

The following correction is made under "Changes in Assignments" in the August 1938 issue of TOPICS AND PERSONNEL:

Alvin F. Seebode, assigned to Harrisburg, Pa. (Airport), "in charge", should be "assistant".

RETIREMENT

Mr. Richard Heine, assistant observer at the Corpus Christi station, was retired at the termination of September 30, 1938, on account of physical disability. He was born at Talladega, Ala., on November 25, 1897. Mr. Heine entered the Weather Bureau service as assistant observer at Phoenix, Ariz., on June 14, 1920, and was later transferred to Corpus Christi, at which station he was serving at the time of his retirement.

DEATH

Mr. William Plummer, Jr., senior laborer at the Central Office, died at Garfield Hospital, Washington, D. C., on September 26, 1938. He was born at Arlington, Va., on August 26, 1875. His entire service, which began December 26, 1903, was at the Central Office.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of September 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Aaronson, Sidney	Washington, D. C.	Assistant clerk, CAF-3, promoted to \$1,680 from \$1,620.
Aldrich, John H.	Kansas City, Mo. (Airport.)	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,100.
Allen, Charles C.	Pomona, Calif.	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,300.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Anderson, O. Kenneth ..	Fairbanks, Alaska.....	Promoted to assistant meteorologist at \$3,200 from junior meteorologist at \$2,000.
Anderson, Roland L.....	Washington, D. C..... (Arlington, Va.)	Promoted to associate meteorologist at \$3,200 from assistant meteorologist at \$2,600.
Andrus, Rodney J.....	Seattle, Wash.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Anthony, Milford E.....	Fresno, Calif.....	Promoted to under observer at \$1,260 from minor observer at \$1,020.
Arnold, Robert R.....	Omaha, Nebr.....	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Ashburn, Edward V.....	San Francisco, Calif.... (Oakland.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Ballard, John C.....	New York, N. Y..... (N. Y. U.)	Assistant meteorologist at \$2,600, transferred from the departmental to the field service.
Balster, John A.....	Washington, D. C.....	Senior laboratory mechanic, SP-6, promoted to \$2,500 from \$2,400.
Bertrand, Wallace A....	Sacramento, Calif.....	Promoted to junior meteorologist at \$2,000 from senior observer at the same salary.
Bird, Claude R.....	Salt Lake City, Utah....	Appointed under observer at \$1,440, by reinstatement.
Blanc, Milton L.....	Lakeland, Fla.....	Appointed observer at \$1,800 by reinstatement in the Government service.
Blinde, Glover L.....	Denver, Colo.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Brinks, Mrs. Isabelle J..	Washington, D. C.....	Assistant clerk, CAF-3, promoted to \$1,740 from \$1,680.
Burg, Alfred C.....	Washington, D. C.....	Senior scientific aid, SP-6, promoted to \$2,100 from \$2,000.
Cameron, Donald C.....	Washington, D. C.....	Promoted to meteorologist, P-4, at \$3,800 from associate meteorologist, P-3, at \$3,200, with transfer to the departmental service.
Carpenter, Archer B....	Seattle, Wash.....	Promoted to associate meteorologist at \$3,200 from assistant meteorologist at \$2,600.
Christie, Ernest J.....	Kansas City, Mo.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Cole, Claude A.....	Pomona, Calif.....	Junior meteorologist, promoted to \$2,200 from \$2,100.
Congdon, Albert L.....	Denver, Colo.....	Appointed junior observer at \$1,440.
Creesy, William C.....	Seattle, Wash.....	Junior observer at \$1,440, appointment terminated without prejudice because of physical disability.
Cullen, Mrs. Rose I.....	Washington, D. C.....	Assistant clerk, CAF-3, promoted to \$1,740 from \$1,680.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Culnan, Robert N.	San Francisco, Calif.... (Oakland.)	Assistant observer at \$1,620, granted leave without pay from September 26, 1938, to termination of June 24, 1939.
Davidson, Robert E.	Washington, D. C.	Principal engineering draftsman, SP-7, promoted to \$2,400 from \$2,300.
Devaney, James L.	Washington, D. C.	Promoted to junior clerk, CAF-2, at \$1,440 from messenger, Cu-3, at \$1,200.
Dolezel, Edward J.	Minneapolis, Minn. (Airport.)	Appointed junior observer at \$1,440.
Elder, Thaddeus H.	Washington, D. C.	Senior clerk, CAF-5, promoted to \$2,100 from \$2,000.
Evans, Harold J.	Winslow, Ariz.	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Feldt, Benjamin F.	Pendleton, Oreg.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Fulks, Joe R.	Seattle, Wash. (Airport.)	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,000.
Gladden, Clare S.	Washington, D. C.	Promoted to senior engineering draftsman, SP-6, at \$2,000 from engineering draftsman, SP-5, at \$1,800.
Goldman, Louis.	Buffalo, N. Y.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Goodwin, Clyde C.	Philadelphia, Pa. (Camden, N. J.)	Assistant observer at \$1,620, resigned; record, very good.
Gregg, Willis R.	Washington, D. C.	Chief of Bureau, P-8, at \$8,000, died September 14, 1938.
Griggs, Armand L.	Lakeland, Fla.	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Hagan, John C.	Evansville, Ind.	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Hagen, Norman R.	Washington, D. C.	Promoted to principal scientific aid, SP-7, at \$2,300 from senior engineering draftsman, SP-6, at \$2,000.
Harman, Wayne E.	Seattle, Wash.	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Heine, Richard.	Corpus Christi, Tex.	Assistant observer at \$1,680, retired.
Hennessey, Harold J.*..	Cambridge, Mass. (M. I. T.)	Agent, promoted to \$150 per month from \$125.
Henry, Henderson.	Washington, D. C.	Minor mechanic (chauffeur), Cu-3, promoted to \$1,320 from \$1,260.
Hoffberg, Miss Ruth.	Springfield, Ill.	Minor observer at \$1,020, granted leave without pay from October 1, 1938, to termination of June 30, 1939.
Itzkowitz, Harry N.	New York, N. Y.	Appointed minor observer at \$1,020.

* Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Jacobs, Woodrow C.....	Pomona, Calif.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Jermin, Thomas E.....	Seattle, Wash.....	Junior meteorologist, promoted to \$2,100 from \$2,000 and name changed on rolls from Thomas Edward Jermin.
Justice, Donald A.....	Topeka, Kans	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Knoph, William C.....	New Orleans, La.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Leghorn, George R.....	Montague, Calif.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Little, Delbert M.....	Washington, D. C.....	Principal meteorologist, P-6, promoted to \$5,800 from \$5,600.
Lorenz, Alfred L.....	Lakeland, Fla.....	Promoted to junior meteorologist at \$2,200 from senior observer at \$2,000.
Lowe, Miss Nellie M.*...	Springfield, Ill.....	Appointed minor observer at \$1,020, temporarily.
McCollum, Eugene W...	Juneau, Alaska.....	Promoted to observer at \$2,160 from assistant observer at \$1,620.
McCollum, Mrs. Mildred S.	Washington, D. C.....	Promoted to clerk, CAF-4, at \$1,800 from assistant clerk-stenographer, CAF-3, at the same salary.
McGregor, Clifford J.....	New York, N. Y..... (Newark, N. J.)	Junior meteorologist at \$2,200, granted extension of leave without pay from October 1, 1938, to the termination of December 31, 1938.
MacPherson, Mrs. Pauline O.	Washington, D. C.....	Assistant clerk-stenographer, CAF-3, at \$1,620, name changed on rolls from Miss Pauline J. Otto.
Mank, Andrew J.....	Washington, D. C.....	Appointed senior engineering draftsman, SP-6, at \$2,000, by transfer from Soil Conservation Service.
Martin, Robert J.....	Washington, D. C.....	Assistant meteorologist, P-2, promoted to \$2,700 from \$2,600.
Melloy, Thomas E.....	Washington, D. C.....	Junior clerk, CAF-2, promoted to \$1,500 from \$1,440.
Mendelson, Joseph U....	Cleveland, Ohio.....	Junior observer at \$1,440, granted leave without pay from September 23, 1938, to the termination of June 22, 1939.
Menzel, Donald H.*.....	Cambridge, Mass..... (M. I. T.)	Appointed agent at \$100 per month, temporarily.
Milano, Benjamin S.....	Washington, D. C.....	Promoted to messenger, Cu-3, at \$1,200 from assistant messenger, Cu-2, at \$1,080.

*Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Miller, Glenn M.....	Sault Ste. Marie, Mich. (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Moore, Bernard H.....	Lakeland, Fla.....	Junior meteorologist, promoted to \$2,100 from \$2,000.
Naimark, Sam.....	Portland, Oreg.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Ochs, Mrs. Ruth E.....	Washington, D. C.....	Promoted to clerk, CAF-4, at \$1,800 from assistant clerk-stenographer, CAF-3, at \$1,740.
Okerlund, Walter M.....	Washington, D. C.....	Promoted to scientific aid, SP-5, at \$1,800 from assistant scientific aid, SP-4, at \$1,680.
Oliver, Vincent J.....	Washington, D. C..... (Arlington, Va.)	Appointed junior observer at \$1,440.
Pardue, Leonard G., Jr..	Mobile, Ala.....	Promoted to junior meteorologist at \$2,000 from senior observer at the same salary.
Parrent, Harry M., Jr.*	Louisville, Ky.....	Appointed minor observer at \$1,020, pending certification of eligibles.
Parry, Robert W.....	Ely, Nev.....	Appointed junior observer at \$1,440.
Pearson, Wilbur F.....	Davenport, Iowa..... (Moline, Ill.)	Appointed under observer at \$1,260.
Pierce, Lawrence C.....	Harrisburg, Pa..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Piippo, Arthur F.....	Sault Ste. Marie, Mich..	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,300.
Plummer, William, Jr...	Washington, D. C.....	Senior laborer, Cu-3, at \$1,440, died September 26, 1938.
Poitras, Joseph J.....	Buffalo, N. Y.....	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Powell, Philip J.....	Lakeland, Fla.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Pullen, William T., Jr...	Washington, D. C.....	Telegrapher, CAF-4, promoted to \$1,920 from \$1,860.
Rahmlow, Herbert H...	Sault Ste. Marie, Mich.. (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Randall, Dwight L.....	Cambridge, Mass..... (M. I. T.)	Designation changed to observer at \$1,800 from scientific aid, SP-5, at the same salary and transferred from the departmental to the field service.
Rathbone, Harold A.....	Pomona, Calif.....	Junior meteorologist, promoted to \$2,400 from \$2,300.
Reeves, Charles G.....	Houston, Tex.....	Promoted to junior meteorologist at \$2,600 from observer at \$1,800.
Reynolds, Clarence R....	Cincinnati, Ohio..... (Airport.)	Junior observer at \$1,440, resigned; record, fair.

*Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Rodriguez, Hector F.*...	San Juan, P. R.....	Appointed minor observer at \$1,020, pending certification of eligibles.
Rogers, Roy J.....	Pomona, Calif.....	Promoted to associate meteorologist at \$3,200 from assistant meteorologist at \$2,800.
Sachse, Glen V.....	Sault Ste. Marie, Mich.. (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Savage, James O.....	Sacramento, Calif.....	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Schamach, Seymour.....	Syracuse, N. Y..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Seebode, Alvin F.....	Harrisburg, Pa..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,740.
Sherouse, Ray T.....	Tampa, Fla.....	Promoted to junior meteorologist at \$2,000 from senior observer at the same salary.
Sik, Alver E.....	Asheville, N. C.....	Promoted to assistant meteorologist at \$2,600 from principal scientific aid, SP-7, at \$2,300.
Steinberg, John C.....	Washington, D. C.....	Promoted to senior mechanic, Cu-7, at \$1,860 from mechanic, Cu-6, at \$1,740.
Strachila, Joseph J.....	Ely, Nev.....	Promoted to observer at \$1,800 from assistant observer at \$1,680.
Striker, Edmond F.....	South Bend, Ind..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Sweet, James S.....	Washington, D. C.....	Appointed junior hydrologic engineer, P-1, at \$2,100 by transfer from U. S. Geological Survey, Interior Department, with transfer from the field to the departmental service.
Thickstun, William R...	Washington, D. C.....	Assistant meteorologist, P-2, promoted to \$2,800 from \$2,700.
Vickers, Rose M.....	Washington, D. C.....	Library assistant, SP-5, promoted to \$1,860 from \$1,800.
Weirauch, Harry N.....	Seattle, Wash.....	Junior meteorologist, promoted to \$2,100 from \$2,000.
Wexler, Harry.....	Washington, D. C.....	Promoted to associate meteorologist, P-3, at \$3,200 from assistant meteorologist at \$2,600, with transfer from the field to the departmental service.
Willett, Hurd C.*.....	Cambridge, Mass..... (M. I. T.)	Appointed agent at \$225 per month, temporarily.
Wilson, Harold L.....	Louisville, Ky.....	Minor observer at \$1,080, resigned; record, very good.
Wolfe, Alfred Y.....	Jacksonville, Fla..... (Airport.)	Promoted to junior meteorologist at \$2,100 from senior observer at \$2,000.

* Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Wood, Willis A.	Washington, D. C.	Senior scientific aid, SP-6, promoted to \$2,100 from \$2,000.
Woodward, Wendell H. .	Seattle, Wash.	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Wright, Samuel F.	North Platte, Nebr.	Promoted to under observer at \$1,200 from minor observer at \$1,020.

Changes in assignments

Name .	Relieved from—	Assigned to—
Aime, E. Allen.	New Orleans, La.	Pasadena, Calif., to attend California Institute of Technology.
Anderson, Roland L.	Asheville, N. C.	Washington, D. C., (Arlington, Va.), assistant.
Arnold, Robert R.	North Platte, Nebr.	Omaha, Nebr., assistant.
Ballard, John C.	Washington, D. C.	New York, N. Y., to attend New York University.
Brown, Merle A.	Winnemucca, Nev.	Las Vegas, Nev., assistant.
Carey, Ralph W.	Pittsburgh, Pa.	Cincinnati, Ohio (Airport), in charge.
Crooker, Clayton B.	Omaha, Nebr.	Ely, Nev., in charge.
Evans, Harold J.	(Airport.)	
Feldt, Benjamin F.	Salt Lake City, Utah. .	Winslow, Ariz., assistant.
Gould, Donnell H.	Williston, N. Dak.	Pendleton, Oreg., assistant.
Jackson, Harwood F.	Rock Springs, Wyo.	Juneau, Alaska, assistant.
Knarr, Aurel J.	Las Vegas, Nev.	Winnemucca, Nev., assistant.
	Kansas City, Mo.	Cambridge, Mass., to attend Massachusetts Institute of Technology.
Leghorn, George R.	Fresno, Calif.	Montague, Calif., in charge.
McCollum, E. Wilbur. .	Denver, Colo.	Juneau, Alaska, assistant.
Mage, Carroll M.	Pomona, Calif.	Seattle, Wash., assistant.
Norquest, Kenneth S. .	Portland, Oreg.	Pasadena, Calif., to attend California Institute of Technology.
Randall, Dwight L.	Washington, D. C.	Cambridge, Mass., to attend Massachusetts Institute of Technology.
Rule, Thomas W.	Detroit, Mich.	Washington, D. C., assistant.
Sik, Alver E.	Washington, D. C.	Asheville, N. C., in charge.
Wexler, Harry.	Cambridge, Mass.	Washington, D. C., assistant.
Zelen, Edward O.	Devils Lake, N. Dak. .	Kansas City, Mo. (Airport), assistant.

WEATHER BUREAU TOPICS AND PERSONNEL

OCTOBER 1938

OATHS OF OFFICE

Due to the late receipt in a considerable number of instances of properly executed oaths of office for new appointees, the Central Office has experienced difficulty in promptly auditing pay rolls. In such cases the voucher must either be delayed or the name of the new employee deleted and correction made on voucher and project sheets and another voucher requested.

Attention is invited to paragraphs 2128, 2157, and 3221 of Regulations of the Department of Agriculture concerning oaths of office. These paragraphs emphasize the fact that in all cases of original appointment an oath of office must be executed before any payment of salary be made, and that a postmaster who is not also a notary public is not authorized to administer oaths of office to employees of the Department of Agriculture.

A blank oath-of-office form is always inclosed with the formal notification of appointment, commonly known as appointment paper. The oath of office should be taken and the completed form forwarded promptly to the Central Office upon assumption of duty by the employee concerned.

The correct name should be used in signing the oath, and in case the signature thereon differs from that used in the recommendation for appointment and/or given in the appointment paper, explanation must be made by letter in duplicate by the appointee in order that a "Change in Name" appointment paper may be issued.

MANUSCRIPTS FOR PUBLICATION

All Bureau employees who have occasion to submit manuscripts for publication in the Monthly Weather Review are reminded that it is necessary to furnish a list of legends to accompany any drawings or photographs. Since these legends have to be set in smaller type than the text proper, the legends should be on a separate sheet at the end of the manuscript.

The Editor of the Review calls attention to the fact that few of the contributors follow the instructions previously issued relative to the avoidance of breaking a paragraph by over-running to the next sheet. Whenever a paragraph can not be completed on a single sheet, the remainder should be typed on another sheet and then the latter cut and pasted to the preceding sheet.

RENDERING OF ACCIDENT REPORTS

When reporting injuries which occur while in performance of duty, officials in charge are requested to furnish the Central Office all necessary C. A. forms *in duplicate*. Every injury should be reported, whether or not there was loss of time or expense involved for medical treatment. In this connection there is no charge against the Commission for medical treatment by physicians of the U. S. Public Health Service.

In addition to the C. A. forms, injuries should also be reported on the "Narrative Report of Accident" form. The former are sent to the Commission or filed here, as the case warrants, and the latter are for use in connection with the report made to the recently established Safety Division of the Department of Agriculture. Only reports of disabling injuries are, at present, furnished to the Safety Division. However, the Central Office has been requested to keep a file of all injuries on the narrative form for use in compiling a possible annual summary. The reports of disabling injuries made on the "Narrative Report of Accident" form should also be furnished *in duplicate*. See article in TOPICS AND PERSONNEL for April 1937, page 379.

TAX-EXEMPTION CERTIFICATES—GASOLINE

Information from the General Accounting Office, under dates of March 4 and September 23, 1938, is to the effect that—

Tax on gasoline in the States of Alabama, Kentucky, and South Carolina is paid by either the importer or wholesale dealer and absorbed in the unit price charged retail merchants, its identity as a tax being lost by reason of such merger, thereby precluding recovery of tax in connection with purchases made from retail dealers.

In view of the above, tax-exemption certificates should not be issued in connection with retail purchases of gasoline in the States of Alabama, Kentucky, and South Carolina.

ADDRESSES FOR MAILING SALARY CHECKS

Paragraph 1 (m) of the circular entitled "Instructions in Connection with Disbursement of Salaries Through Regional Disbursing Offices" is hereby amended to read as follows:

(m) If located outside the disbursing centers, type the following in any blank space near the bottom on the reverse side of the voucher:

Mail all checks in one envelope to
 Official in Charge,
 Weather Bureau Office

.....

(Insert name of city and State)

Do not mail to individuals.

The addition of the words "Official in Charge" to the address is made for a legal reason at the request of the Chief Disbursing Office.

USE OF PILOT BALLOONS FOR MEASURING CEILING HEIGHTS

In view of the fact, as reported by various airport stations, that the 10-gram ceiling balloons are frequently lost from sight before reaching the cloud base when high winds prevail or the cloud base is relatively high, the Central Office has decided to furnish a limited number of the faster-rising 30-gram pilot balloons to ceiling-balloon stations for use on such occasions. Special inflation nozzles for this purpose have, accordingly, been designed and purchased and are now available for issue. The selection of stations where it is considered advantageous to use the larger balloons will be left to the discretion of the general supervising airport stations. The adequacy of the inflation shed at each point must, of course, be considered in this connection, as the pilot balloons are to be inflated to a diameter of approximately 26 inches. All general supervising stations are, accordingly, requested to submit Stores Requisitions for the inflation nozzles, the instructions for their use, and a supply of balloons. It should be indicated on the Stores Requisitions in each case whether the nozzle is for use with hydrogen or helium gas, as follows:

Nozzle, inflation, pilot balloon for use with hydrogen (or helium) gas

The initial shipment of pilot balloons to each station will be restricted to 25, of which 15 will be black and 10 red.

DIVISION OF SUBSTATION PROPERTY ACCOUNTABILITY

Several field officials have reported that a divided accountability for property at substations between climatological centers and airport supervising stations has proved unsatisfactory due to substation observers failing to know to which supervising station to report instrument failures. In view of the fact that airway inspectors visit practically all substations engaged in airway meteorological work several times each year, and carry some instrumental equipment with them, it is desired that accountability for all property at these substations be assigned to the direct supervising station for airway work. Accordingly, officials in charge of climatological centers affected by the foregoing should prepare recommendations for the transfer of property concerned. These recommendations should list the property to be transferred and should be forwarded to the Central Office through the airport stations recommended to assume the property accountability.

PREPARATION OF BILLS OF LADING FOR SHIPMENT OF HELIUM CYLINDERS

The Central Office has been advised by the Bureau of Mines that in some cases bills of lading have been forwarded to the office of their helium plant at Amarillo, Tex., in connection with the shipment of helium cylinders, without an extra copy for the files of that office. The omission of the extra copy makes it necessary for the Bureau of Mines to make up their own file copy, thus imposing upon them unnecessary,

additional clerical work. All stations using helium gas are, accordingly, requested to always furnish an extra memorandum copy (yellow Standard Form No. 1058a) for the Bureau of Mines' file of all bills of lading used in placing orders for helium gas or in the return of empty cylinders. The extra memorandum copy should be marked as follows: "This Sheet to Be Retained by Contractor".

CHANGES IN SGL D&A REPORTS

The 7:30 a. m. (E.S.T.) observations taken at the 6-hourly station at Lemmon, S. Dak., were added to the SGL D&A distribution system on November 1, 1938.

TELEGRAPHIC ADDRESS FOR IOWA CITY, IOWA

In the future all telegraphic messages for the Weather Bureau Airport Station, Iowa City, Iowa, should be addressed "Airway Observer, Iowa City, Iowa", while those intended for the Hydrologic Office, located in the city, should be addressed "Observer, Iowa City, Iowa". This is necessary in order to expedite delivery of the messages to the proper offices.

BAROMETRIC-PRESSURE REDUCTIONS

It has come to the attention of the Central Office that there is considerable lack of uniformity in the matter of barometric reductions to sea level with regard to dropping decimals of pressure observations and the temperature-unit argument. Attention is invited to paragraph 43, "Instructions for Preparing Meteorological Forms", which provides that the pressure argument for reduction will be the station pressure *to hundredths of an inch only*. The temperature argument should be to the nearest whole degree, derived as provided for in this paragraph.

PILOT-CHART ARTICLE

Supplements to the Pilot Chart of the North Atlantic Ocean for 1938 containing an article, "Technique of Drawing Isobars on Weather Maps", by Gardner Emmons, are being distributed to stations. Each regular and airport station should receive one copy. Only a limited number of the supplements has been received, hence they can not be supplied in quantity.

The article is recommended for study by all employees of the Bureau. It should be especially helpful to those who draw isobars from data contained in ships' weather reports.

REPORTS USED IN FORECAST VERIFICATIONS

Reports from all first- and second-order stations received at Washington by telegraph, and a considerable number of those received by teletype (especially those located in States comprising the practice-forecast groups), are entered on manuscript charts and are used in the verifying of State and practice forecasts. Hourly sequence reports are not used in such verifications.

NEW PROPERTY CLASSIFICATION

On November 8, 1938, a list of additional property classifications and revisions, dated November 1, 1938, was mailed to all regular and airport stations. This list supplements the list mailed from this office on January 1, 1938.

Any station not receiving a copy of this list should notify the Central Office immediately.

PROPERTY CLASSIFICATION

Stations are instructed to change item listed on Additional Classification and Revision List, mailed November 1, 1938, from "Can, metal, precipitation gage (Y)" to "Can, metal, precipitation gage, hydrologic research type (Y)".

CLOUD REPORTS IN THE INTERNATIONAL CODE

A circular entitled "Cloud Reports in the International Code", dated October 15, 1938, was mailed to all regular and airport stations on October 19, 1938. Any station not receiving a copy should notify the Central Office.

LOSS OF CREDENTIAL CARD

The following notice, A-11928, dated September 28, 1938, was received from the Acting Comptroller General of the United States and is self-explanatory:

This office has received notice of the loss of General Accounting Office Credential Card No. 334, issued to A. R. Shepherd, Jr., an auditor of this office.

The lost card should not be recognized under any circumstances, and if presented for such purposes it should be taken up and forwarded to the General Accounting Office, Washington, D. C.

It is requested that the loss of the said credential card be bulletined, with advice that same should not be honored.

VOUCHERS COVERING REPAIRS TO WEATHER BUREAU PROPERTY

The number of the paragraph referred to in the article under the above heading on page 104 of the September 1938 issue of TOPICS AND PERSONNEL should be "99" instead of "100".

FEDERAL BUSINESS ASSOCIATIONS

Weather Bureau officials have been elected or appointed to office in local Federal Business Associations as follows:

Mr. Harry G. Carter, Boise, Idaho, reelected secretary-treasurer.

DEPARTMENTAL REGULATIONS

Copies of amendments to Department Regulations Nos. 25, 66, 67, 68, 69, 70, 71, and 73, paragraphs 1712, 2511, 2512, 2521, 2522, 1711, 2114, and 1552, respectively, were mailed to all regular and airport stations during October 1938. Amendment No. 72 has not been released. Any station not receiving a copy of each should notify the Central Office.

DEATHS

Mr. Julius J. Haydon, printer at the Lincoln station, died at the U. S. Veterans' Hospital in Lincoln on October 14, 1938. He was born in La Salle County, Ill., on November 16, 1874. Mr. Haydon entered the Weather Bureau on January 6, 1920, at Lincoln, and his entire service was at that place.

Mr. Augustus B. Nichols, who was retired on November 30, 1936, died on October 28, 1938, at Atlanta, Ga. A notice of his retirement and an outline of his service will be found in TOPICS AND PERSONNEL for November 1936.

Mr. Ferdinand J. Walz, who was retired on November 30, 1920, died at his home in Louisville, Ky., on October 21, 1938. A notice of his retirement and an outline of his service will be found in TOPICS AND PERSONNEL for November 1920.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of October 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Brewster, George F.	Bismarck, N. Dak.	Appointed junior observer at \$1,440.
Brown, Henry A.	Washington, D. C.	Relief watchman, at \$3 per diem, wae., appointment terminated because of unavailability.
Brown, Homer F.	Peoria, Ill.	Assistant observer at \$1,020, granted leave without pay from October 17, 1938, to termination of September 18, 1939.
Brown, Jean A.	San Francisco, Calif. (Oakland.)	Promoted to observer at \$1,800 from assistant observer at \$1,020.
Brumbach, Ezra T.	Boise, Idaho.	Appointed minor observer at \$1,020.
Chadsey, Elmer M.	Redding, Calif.	Appointed junior observer at \$1,440.
Crooker, Clayton B.	Ely, Nev.	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Curtis, Robert H.	Washington, D. C.	Promoted to junior meteorologist, P-1, at \$2,000 from scientific aid, SP-5, at \$1,800.
Dannheiser, Charles L. ...	Philadelphia, Pa. (Camden, N. J.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Decker, Fred W.	Pendleton, Oreg.	Junior observer at \$1,440, granted leave without pay from October 12, 1938, to termination of June 12, 1939.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Dightman, Richard A...	Seattle, Wash..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Fodor, Lester S.....	Cincinnati, Ohio..... (Airport.)	Appointed junior observer at \$1,440.
Ford, John L.....	St. Louis, Mo..... (Airport.)	Appointed junior observer at \$1,440.
Fox, Roy L.....	Topeka, Kans.....	Appointed junior observer at \$1,440.
Frost, Reuben L.....	Richmond, Va..... (Airport.)	Assistant meteorologist, salary readjusted from \$3,200 to \$2,700, without prejudice, because of transfer from Alaska to the States.
Gard, Elton M.....	Concordia, Kans.....	Appointed junior observer at \$1,440.
Garstens, Martin A.....	Buffalo, N. Y..... (Airport.)	Assistant observer at \$1,620, granted leave without pay from November 1, 1938, to termination of October 31, 1939, and name changed on rolls from Morris Garlinkel.
Grantham, William P...	Topeka, Kans.....	Assistant observer at \$1,620, granted leave without pay from October 8, 1938, to termination of June 15, 1939.
Gould, Donnell H.....	Juneau, Alaska.....	Promoted to junior meteorologist at \$2,500 from observer at \$1,800.
Hales, J. Vern.....	Salt Lake City, Utah... (Airport.)	Appointed junior observer at \$1,440.
Hanlon, Earl S.....	Kansas City, Mo..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Harris, Miles F.....	Washington, D. C.....	Promoted to assistant scientific aid, SP-4, at \$1,620 from junior observer at \$1,440, with transfer from the field to the departmental service.
Haydon, Julius J.....	Lincoln, Nebr.....	Printer, at \$1,920, died October 14, 1938.
Hill, Robert G.....	Pocentello, Idaho..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Hilton, Duncan E.....	Havre, Mont.....	Minor observer at \$1,020, granted leave without pay from October 26, 1938, to termination of June 10, 1939.
Honke, Martin T., Jr....	Kansas City, Mo..... (Airport.)	Appointed junior observer at \$1,440.
Hurley, John C.....	Kansas City, Mo..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Hutchison, Howard E...	Los Angeles, Calif..... (Burbank.)	Promoted to junior meteorologist at \$2,100 from senior observer at \$2,000.
Johnson, Charles B.....	Nashville, Tenn.....	Promoted to junior observer at \$1,440 from under observer at \$1,200.
Kogon, Theodore.....	Washington, D. C.....	Appointed assistant messenger, Cu-2, at \$1,080.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Langer, Warren O.....	Huron, S. Dak.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Lawler, Edward A.....	Chicago, Ill.....	Appointed junior meteorologist at \$2,000, by reinstatement in the Government service.
McGurrin, Martin.....	Washington, D. C.....	Promoted to scientific aid, SP-5, at \$1,800 from assistant scientific aid, SP-4, at \$1,620.
McIntire, Mrs. Mary R..	Washington, D. C.....	Promoted to assistant clerk-stenographer, CAF-3, at \$1,620 from junior stenographer, CAF-2, at \$1,440.
Mahler, Mrs. Hazel R...	Washington, D. C.....	Promoted to assistant clerk-stenographer, CAF-3, at \$1,620 from junior clerk-stenographer, CAF-2, at \$1,440.
Malecki, Conrad A.....	Sault Ste. Marie, Mich..	Junior observer at \$1,440, granted leave without pay from September 27, 1938, to termination of December 26, 1938.
Means, Lynn L.....	Centerville, Ind..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Monson, Milo P.....	Williston, N. Dak.....	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Muldoon, William A.....	Springfield, Ill.....	Appointed under observer at \$1,260.
Murphy, Alvin D., Jr...	Peoria, Ill.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Neiburger, Morris.....	Chicago, Ill.....	Observer at \$1,800, granted leave without pay from October 18, 1938, to termination of June 2, 1939.
Ochs, Mrs. Ruth E.....	Washington, D. C.....	Designation changed to clerk-stenographer, CAF-4, at \$1,800 from clerk, CAF-4, at the same salary.
Oliver, Lawrence O.....	Kansas City, Mo..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
O'Toole, Morgan J.....	Washington, D. C.....	Clerk, CAF-4, at \$1,800, granted leave without pay from October 4, 1938, to termination of January 3, 1939.
Padala, Edward S.....	Washington, D. C.....	Promoted to messenger, Cu-3, at \$1,200 from assistant messenger, Cu-2, at \$1,080.
Parry, H. Dean.....	Salt Lake City, Utah... (Airport.)	Appointed junior meteorologist at \$2,000.
Quinn, John D.....	Williston, N. Dak.....	Appointed minor observer at \$1,020.
Rabbitt, George G.....	Washington, D. C.....	Promoted to clerk, CAF-4, at \$1,800 from assistant clerk, CAF-3, at \$1,680.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Rhoten, Rex R.....	Pendleton, Oreg.....	Appointed junior observer at \$1,440.
Rink, James F.....	Fairbanks, Alaska.....	Promoted to junior meteorologist at \$2,500 from scientific aid, SP-5, at \$1,800 with transfer from the departmental to the field service.
Rockney, Vaughn D.....	Devils Lake, N. Dak...	Appointed minor observer at \$1,020.
Rodgers, Lyndon T.....	Kansas City, Mo..... (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Rodriguez, Hector F.....	San Juan, P. R.....	Minor observer at \$1,020, temporary appointment terminated, served but a short time.
Rosenberg, Pierce S.....	Philadelphia, Pa..... (Camden, N. J.)	Assistant observer, promoted to \$1,740 from \$1,020.
Rule, Thomas W.....	Washington, D. C.....	Promoted to assistant scientific aid, SP-4, at \$1,020 from junior observer at \$1,440 with transfer from the field to the departmental service.
Sadler, Joseph P.....	Washington, D. C.....	Messenger, Cu-3, at \$1,200, resigned; record, very good.
Sanders, Robert A.....	Nashville Tenn..... (Airport.)	Junior observer at \$1,440, granted leave without pay from October 4, 1938, to termination of June 14, 1939.
Schober, Joseph E.....	Chicago, Ill.....	Appointed junior observer at \$1,440.
Sharpton, Richard L.....	Pittsburgh, Pa..... (Airport.)	Junior meteorologist, promoted to \$2,100 from \$2,000.
Smith, Kenneth E.....	Portland, Oreg.....	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Thies, Miss Charlotte A..	Washington, D. C.....	Appointed senior operative, CAF-3, at \$1,020, by transfer from the Extension Service.
Thompson, Jack C.....	Pomona, Calif.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Tiller, George H.....	Chehalis, Wash.....	Assistant observer, promoted to \$1,740 from \$1,020.
Veliquette, Chester M...	Sacramento, Calif..... (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Witter, Jack A.....	Pendleton, Oreg..... (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Woffinden, Charles M...	Salt Lake City, Utah... (Airport.)	Junior observer at \$1,440, granted leave without pay from October 10, 1938, to termination of June 15, 1939.
Younkin, Russell J.....	Topeka, Kans.....	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Zeien, Edward O.....	Kansas City, Mo.....	Minor observer at \$1,020, resigned; record, very good.

Changes in assignments

Name	Relieved from—	Assigned to—
Braley, Bryan.....	Las Vegas, Nev.....	Oklahoma City, Okla. (Airport), assistant.
Brown, Jean A.....	Sacramento, Calif..... (Airport.)	Oakland, Calif. (Airport), assistant.
Dightman, Richard A...	Chehalis, Wash.....	Seattle, Wash. (Airport), assistant.
Elford, Carroll A.....	Boise, Idaho.....	Pocatello, Idaho (Airport), assistant.
Frost, Reuben L.....	Fairbanks, Alaska.....	Richmond, Va. (Airport), in charge.
Griggs, Armand L.....	Galveston, Tex.....	Lakeland, Fla., assistant.
Hall, Clifford D.....	Columbus, Ohio..... (Airport.)	Muskegon, Mich., in charge.
Harnan, Wayne E.....	Seattle, Wash..... (Airport.)	Pomona, Calif., assistant.
Harris, Miles F.....	Macon, Ga.....	Washington, D. C., assistant.
Hurley, John C.....	Cincinnati, Ohio..... (Airport.)	Kansas City, Mo. (Airport), assistant.
Johnson, Charles B.....	Springfield, Ill..... (Airport.)	Nashville, Tenn. (Airport), assistant.
Krumm, Wilbert R.....	Mount Shasta, Calif....	San Francisco, Calif., assistant.
Langer, Warren O.....	Bismarck, N. Dak.....	Huron, S. Dak. (Airport), assistant.
Means, Lynn L.....	St. Louis, Mo..... (Airport.)	Centerville, Ind., in charge.
Milligan, James W.....	Key West, Fla.....	Lakeland, Fla., assistant.
Murphy, Alvin D., Jr...	Chicago, Ill.....	Peoria, Ill., assistant.
Pardue, Leonard G., Jr..	Mobile, Ala.....	Lakeland, Fla., assistant.
Penfield, Charles F.....	Tacoma, Wash. (Airport.)	Bellingham, Wash., in charge.
Powell, Philip J.....	Pensacola, Fla.....	Lakeland, Fla., assistant.
Reeves, Charles G.....	Houston, Tex.....	Lakeland, Fla., assistant.
Rink, James F.....	Washington, D. C.....	Fairbanks, Alaska, assistant.
Rordame, Alfred A.....	Salt Lake City, Utah... (Airport.)	Pocatello, Idaho (Airport), assistant.
Rosenberg, Pierce S.....	Centerville, Ind.....	Camden, N. J., assistant.
Salisbury, Burton.....	New York, N. Y.....	Des Moines, Iowa, assistant.
Sharpton, Richard L.....	Kansas City, Mo..... (Airport.)	Pittsburgh, Pa. (Airport), assistant.
Sherouse, Ray T.....	Tampa, Fla.....	Lakeland, Fla., assistant.
Tiller, George H.....	Pendleton, Oreg.....	Chehalis, Wash., in charge.
Ulah, W. Howard.....	New York, N. Y..... (Mitchel Field)	Charlotte, N. C. (Airport), assistant.
Veliquette, Chester M...	Redding, Calif.....	Sacramento, Calif. (Airport), assistant.
Younkin, Russell J.....	Concordia, Kans.....	Topeka, Kans., assistant.

UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

ROSTER OF COMMISSIONED
WEATHER BUREAU
PERSONNEL

NOVEMBER 1, 1938

For the exclusive information of officials
and employees of the Weather Bureau

WASHINGTON
WEATHER BUREAU
1938

ROSTER OF COMMISSIONED
**WEATHER BUREAU
PERSONNEL**

NOVEMBER 1, 1938

**For the exclusive information of officials
and employees of the Weather Bureau**

NOTE

Assignments based on orders issued to November 1, 1938, inclusive. The names are arranged in accordance with classification grade in the Central Office and with salary grade in the field, 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 in the same grade who are not either the official in charge or the first assistant, the arrangement is made alphabetically.

CENTRAL OFFICE, NOVEMBER 1, 1938

OFFICE OF CHIEF

Chief.—Vacant.
Secretary.—Vernon N. Wolf.
Messenger.—Gerald E. Goebel.

OFFICE OF ASSISTANT CHIEF

Assistant Chief.—Charles C. Clark.
Secretarial assistant.—John J. Brennan.
Stenographer.—Mrs. Pauline M. Arnote.

ADMINISTRATIVE DIVISION

<i>Chief.</i> —William Weber.	
<i>Assistant and personnel officer.</i> —Charles W. Rohrer.	
<i>Secretary.</i> —Miss Callie E. Rhodes.	
<i>Clerical force.</i> —Miss Grace W. Carter.	Miss Mary D. Stanski.
Ebert L. Franklin.	Mrs. Susie M. West.
Mrs. Ellen J. Adams.	Miss Eleanor G. Bishop.
Mrs. Sadie C. Ward.	Miss Alice R. Shafer.
Miss Alice M. Lassen.	
<i>Files.</i> —Miss Mary E. Bell (in charge).	
George G. Rabbitt.	Monroe Feldheim.
John J. Dean.	
<i>Messenger.</i> —William D. Caldwell.	
<i>Switchboard.</i> —Mrs. Virginia M. Anderson.	
<i>Drafting.</i> —Robert E. Davidson (in charge).	Charles E. James.
Frederick F. Clafin.	Andrew J. Munk.
William H. C. Holst.	
<i>Heat, light, and power plant:</i>	
<i>Engineer.</i> —John C. Steinberg.	
<i>Assistant Engineer.</i> —Vacant.	
<i>Firemen.</i> —Warren Hall.	
James Hall.	
<i>Carpenter and paint shop.</i> —Everett H. Hughes (in charge).	
Dahl Baxter.	
<i>Gardener.</i> —Vacant.	
<i>General custodial service.</i> —John G. Strobel (in charge).	David E. Brickles.
<i>Messengers.</i> —Benjamin S. Milano.	Frederick N. Ward.
Harold Thomas.	
<i>Laborers.</i> —George J. Glover (in charge).	Thomas L. Anderson.
Richard W. Curtis.	William H. Edwards.
Henderson Henry.	William S. Lee.
William R. Pollard.	Ernest Magruder.
James T. Toliver.	
Rudolph Washington.	

ADMINISTRATIVE DIVISION—Continued*Guards (watchmen):*

Clarence W. Banton.
George E. Dame.

Fred R. Martin.
Ernest G. Montrop.

Relief guards (watchmen):

Clauda M. Camper.
James J. Crawford.

R. French Drury.
Carl W. Rohrer.

Charwomen:

Mrs. Ada Flemming.
Mrs. Addie E. Sayles.
Mrs. Isabel Smith.

Mrs. Jessie M. White.
Mrs. Mabel R. Whitney.

STATIONS AND ACCOUNTS

Chief.—George M. Richards.

Assistant.—Miss Lula A. Ehringer.

Stenographer.—John R. F. Keefe.

Auditing.—Miss Mary K. Cummings.

Miss Sallie R. Stout.

David Armhold, 3d.

Francis M. Burns.

George H. Belt.

Mrs. Rose I. Cullen.

James W. Gardiner.

Arthur W. Finkelstein.

Bookkeeping.—Miss Olive M. Long (in charge).

Farris E. Angell.

Charles L. Grant.

Miss Frances M. Miller.

Horace H. Kramer, Jr.

Mrs. Maud S. Anderson.

Morton J. Serlin.

Mrs. Erma B. Holl.

Miss Charlotte A. Thies.

Mrs. Ethel F. Luvisi.

Miss June E. Brice.

Messenger.—David Kogon.

PRINTING

Chief.—Henry C. Briscoe.

Assistant.—Thaddeus S. Stone.

Clerical assistant.—Mrs. Elizabeth G. Collins.

Addressograph operator.—Keith S. Nicoson.

Composing room.—Allen C. Brightenburg (in charge).

Davissou Armstrong.

John E. Voll.

Clifford Jones.

Walter A. Weston.

Samuel B. Lapin.

Press room.—Thaddeus S. Stone (in charge).

John Peplusky.

William J. Knott.

Lewis E. Johnson.

William A. Pettit.

Maurice F. Kleindienst.

Lithographers.—William G. Staderman (in charge).

Louis N. Calder.

Howard W. Dickson.

Asa W. De La Vergne.

La Mar E. Harper.

Mechanical assistant.—John B. Stanton.

Laborers.—Thomas Patrick.

Edward F. Fisher, Jr.

James E. Brown.

SUPPLIES

Chief.—Don Y. Engell.
Assistant.—Benjamin F. Butler.
Clerical force.—Thaddeus H. Elder. Samuel F. Pallant.
 William D. Lee. Eugene F. Sweeney.
 Alfred B. Tugman, Jr. Howard D. Wilson.
 John W. Coover. Frederick F. Feiss.
 Raymond R. Stone. John W. McCook.
Stores and packing room.—John H. Edge (in charge).
 William L. Smith.
Laborers.—George C. James.
 Linwood Turner.

TELEGRAPH

Chief.—Fred M. Graf.
Assistant.—Von M. Summers.
Telegraphers.—James J. Hope. William T. Pullen, Jr.
 James M. Dean. Benjamin E. Reed.
 James B. Lyle. Martin C. Rose.
 Stephen H. Martin. Harry L. Swart.
 Alfred S. Mason.
Messengers.—Edward S. Padala (day).
 John V. Bruen (night).

PROFESSIONAL AND TECHNICAL SERVICE**AEROLOGICAL DIVISION**

Chief.—Delbert M. Little.
Assistant.—Leroy T. Samuels.
Clerical force.—Mrs. Ruth E. Ochs (supervisor). Mrs. Mary R. McIntire.
 James B. Baldwin. Thomas J. Brennan.
 Raymond P. Hogan.
 Mrs. Ruby R. Kass.
Airways.—Paul A. Miller (in charge). David Rose.
 Carroll J. Doering.
 Robert H. Curtis.
Airplane and sounding-balloon observations.—Leroy T. Samuels (in charge).
Assistants.—Herbert L. Choate. Marion E. Crawford.
 Allen R. Stickley. Earl C. Thom.
 Benjamin Ratner. Walter A. Jackson.
 Miss Mabel G. Fillmore. Leonard E. Jones.
 Nils G. Anderson. Michael F. Morgan.
 Raphael F. Kernan. Mrs. Sarah M. Vardy.
Pilot-balloon observations.—Lloyd A. Stevens (in charge).
Assistants.—B. Francis Dashiell. Ernest B. Williams.
 Willis A. Wood. Sidney Aaronson.
 Le Roy F. Hafer. Evarts Corbin.
 Clayton L. Rock. Mrs. Alice H. Haynes.
Aerological investigations.—Louis P. Harrison.
AIRPORT.—General Supervising Station (Arlington, Va.)
In charge.—Eugene M. Barto.
Assistants.—Roland L. Anderson. Carl Russo.
 Marshall J. Chambers. Philip D. Thomas.
 Ralph E. Gumpf. Merl S. Main.
 Walter P. Long. Elmer R. Nelson.
 Robert S. Murray. Louis P. Carstensen.
 Roy J. Powers. Vincent J. Oliver.
 William C. Haines (special duty).

CLIMATE AND CROP WEATHER DIVISION*Chief.*—Joseph B. Kincer.*Assistant.*—Wesley W. Reed.*Technical assistant.*—William A. Mattice.*Secretary.*—Mrs. Iva B. Hess.*Stenographer.*—Mrs. Margaret G. Connor.*Clerical force.*—Albert F. Magrum.

Miss Esther Anderson.

Miss Isabel C. Kiernan.

Miss Mary O. Souder.

Mrs. Annie E. Small.

Miss Anna Stopp.

James Devaney.

Mrs. Murtha J. Gallenne.

Caroll W. Gardner.

Miss Tzierel Gurman.

Miss Mary Scherr.

Miss Agnes R. Thompson.

Climatic investigations.—Joseph P. Kohler.*Weather and crop investigations.*—Robert J. Martin.**FORECAST DIVISION***Chief.*—Edgar B. Calvert.*Assistant.*—Thomas R. Brooks.*Secretary.*—Mrs. Hazel R. Mahler.*Fire-weather service.*—Leland T. Pierce.*Assistant.*—Norman R. Hagen.*Forecast distribution.*—Arthur J. DeMars.*Clerical assistant.*—Mrs. Mildred S. McCollum.*Map and radio force.*—Arthur J. Haidle (in charge).

Paul B. Marks.

J. Theodore Bray.

Alfred C. Burg.

Milford F. King.

Charles E. Bolen.

Frederick L. Caudle.

- Harold B. Cole.

Donald M. Hester.

Martin McGurrin.

William N. Moreland.

- Walter M. Okerlund.

- Howard C. Sumner.

Miles F. Harris.

Louis Malkin.

Thomas W. Rule.

Observatory.—Milton A. Robinson.*Verifications.*—Paul R. Jones.**FORECASTING***Forecasters.*—Charles L. Mitchell.

Wilfred P. Day.

R. Hanson Weightman.

Stenographer.—Mrs. Laura M. Caffrey.**INSTRUMENT DIVISION***Chief.*—Benjamin C. Kadel.*Assistant.*—Roy N. Covert.*Secretary.*—Miss Hazel G. Brown.*Clerical force.*—Thomas E. Melloy.

Stanley M. Segal.

Emory C. Pharr.

Designing and procurement.—Atherton H. Mears.

Christos Harmantas.

William R. Thickstun.

Testing.—Hermann E. Hobbs.

Robert E. L. Blumenauer, Jr.

General mechanical force.—John A. Balster.

Moses H. Brown.

Instrument shop.—Oscar C. Rauh (in charge).

Henry C. Moon.

John G. Mathes.

William C. McConnell.

Edwin D. Wiedemann.

William E. Pfeifer.

LIBRARY

Librarian.—Richmond T. Zoch.

Assistants.—Mrs. Amy P. Leshner.

Miss Rose M. Vickers.

Miss Gladys M. Meeks.

Stenographer.—Miss Helen W. Fenwick.

Messenger.—Bernard Edelman.

MARINE DIVISION

Chief.—Ivan R. Tannehill.

Assistant.—Willis E. Hurd.

Ocean-weather investigations.—Vacant.

Technical section.—Giles Slocum.

Mrs. Isabelle J. Brinks.

Homer D. Dyck.

Statistical section.—Herbert C. Hunter (in charge).

Assistants.—Jean H. Gallenne.

Thomas D. Whitely.

William C. Cox.

METEOROLOGICAL RESEARCH DIVISION

Chief.—Edgar W. Woolard.

Editor.—Vacant.

Assistant.—Charles M. Lennahan.

Secretary.—Mrs. Pauline O. MacPherson.

Clerical assistant.—Herbert Lyman.

Air-mass analysis.—Horace R. Byers (in charge).

Harry Wexler.

David J. Stevlingson.

Charles H. Pierce.

Clarence G. Gilbert.

Philip F. Clapp.

Arthur N. Thomas.

Patrick J. Harney.

Meteorological consultant.—Horace R. Byers.

Solar radiation.—Vacant (in charge).

Assistant.—Irving F. Hand.

Etymologist-lexicographer.—Edward H. Sehrt.*†

Collaborator.—William J. Humphreys.

RIVER AND FLOOD DIVISION

Chief.—Merrill Bernard.

Assistant.—Robin E. Spencer.

Secretary.—Miss Daratha G. Hutsler.

Records.—Bennett Swenson.

Charles S. Gilman.

Hydrologic Office, North Atlantic Region.—Albert L. King (in charge).

Clarence R. Jordan.

Hydrometeorological Research Section.—Donald C. Cameron (in charge).

Assistants.—Eugene Bollay.

James S. Sweet.

Albert K. Showalter.

Daniel Fisher.

Herbert C. S. Thom.

Clare S. Gladden.

Howard C. Woster.

Arthur J. Myers.

Phillip W. Kenworthy.

Joseph R. Rosenthal.

Phillip Light.

William E. Kinnear.

Samuel B. Solot.

Minter W. Robbins.

Thomas S. Southwick.

Arthur H. Jennings.

Secretary.—Mrs. Hazel S. Marshall.

*Temporary. †Intermittent service.

STATION ASSIGNMENTS, NOVEMBER 1, 1938

ABILENE, TEX.^(a)

In charge.—William H. Green, Junior Meteorologist.

Assistant.—Jack C. Phipps.

Laborer.—Harley D. Bateman.

AIRPORT.

In charge.—Edgar A. Moore.

Assistants.—Russell P. Mozeney.

Francis E. Newell.

John E. W. Spencer.

Hermann B. Wobus.

AKRON, OHIO

(Station located at airport)

In charge.—Raymond C. Robinson, Junior Meteorologist.

Assistants.—John P. Kurtzweil.

Frederick K. Oplinger.

Under observers.—Loren F. Jones.

Conrad P. Mook.

ALBANY, N. Y.

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

Assistant.—John B. Underwood.

Minor observer.—Thomas A. Kernan.

AIRPORT.

In charge.—Arthur A. Lane.

Assistants.—Alexander L. Shands.

Morris H. Frankel.

Sidney Schwaber.

Abraham S. Kussman.

ALBUQUERQUE, N. MEX.

(Center of New Mexico Section, Climatological Service. Station located at airport)

In charge.—Erle L. Hardy, Associate Meteorologist.

Assistants.—James M. Brady.

Clynt E. Sitchler.

Russell C. Grubb.

Raymond H. Kraft.

Paul H. Taft.

Harry H. Williams.

Howard W. Neill.

ALEXANDRIA, MINN.

(Station located at airport)

In charge.—Robert B. McComb, Assistant Observer.

ALPENA, MICH.

In charge.—Abe Wiesner, Assistant Meteorologist.

Assistant.—Thomas D. Coen.

AMARILLO, TEX.

In charge.—Herman T. Collman, Assistant Meteorologist.

Assistant.—William M. Percy.

Under observers.—Robert R. Davis.

Albert H. Hester.

^a Quarters, fuel, and light provided for official in charge.

ANCHORAGE, ALASKA

In charge.—Edward H. Chappell, Assistant Meteorologist.

Assistant.—Glenn L. Bowie.

APALACHICOLA, FLA.

In charge.—James W. Smith, Junior Meteorologist.

Assistant.—Robert M. Fenn.

ASHEVILLE, N. C.

In charge.—Alver E. Sik, Assistant Meteorologist.

Assistants.—Paul F. Sutton.

Norman B. Foster.

ATLANTA, GA.

(Center of Georgia Section, Climatological Service)

In charge.—George W. Mindling, Senior Meteorologist.

Assistants.—Rolen L. Cornelius.

Donald A. Bush.

Olin M. Hadley.

Printer.—Charles B. Nichols.

Minor observer.—John W. Weinschenk.

AIRPORT—General Supervising Station.

In charge.—Glen Jefferson, Meteorologist.

Assistants.—Arthur W. Brooks.

Lewis F. Thomas.

Ralph H. Desmond.

Howard S. Lawler.

Phillips P. Hemphill.

Emmett H. Miller.

Roy A. Smith.

Clarence E. Skillman.

David W. Miller.

Robert S. Allen.

Wiley K. Sims.

William A. Boland.

ATLANTIC CITY, N. J.^(*)

In charge.—Samuel Deitch, Junior Meteorologist.

Minor observer.—Dominic Grady.

AUGUSTA, GA.

In charge.—Harry Raynes, Assistant Meteorologist.

Assistant.—Thomas C. Council, Jr.

Under observer.—Joseph W. Evans.

AUSTIN, TEX.

In charge.—Frank Haynes, Junior Meteorologist.

Assistant.—Carl M. Reber.

BAKER, OREG.

In charge.—Lonnie F. Ball, Junior Meteorologist.

Assistant.—Robert L. King.

BALTIMORE, MD.

(Center of Maryland and Delaware Section, Climatological Service)

In charge.—John R. Weeks, Meteorologist.

Assistants.—Joseph Bily, Jr.

Henry Levy.

Clemmy C. Hamme.

William H. Brown.

Minor observer.—Louis B. Sherman.

^{*} Quarters, fuel, and light provided for official in charge.

BALTIMORE, MD.—Continued**AIRPORT** (*Logan Field; P. O., Dundalk, Md.*)*In charge.*—Frank T. Henley.*Assistants.*—George A. Johnson.

David Friedman.

Under observer.—Robert M. James.**BEAR MOUNTAIN, N. Y.**

(For Airway Service only)

In charge.—Carl T. Prochnow, Assistant Observer.**BELLINGHAM, WASH.**

(Station located at airport)

In charge.—Charles F. Penfield, Assistant Observer.**BILLINGS, MONT.***In charge.*—Hugh D. Spangler, Assistant Meteorologist.*Assistants.*—Elmer J. Fox.

Warren J. Fitzgibbons.

Harlan C. Rinard.

Charles A. Stevens.

Robert C. Borders.

BINGHAMTON, N. Y.*In charge.*—Thomas E. Reed, Associate Meteorologist.*Assistant.*—Chester E. Wilcox.*Minor observer.*—Newton C. Greenwood.**BIRMINGHAM, ALA.^(a)***In charge.*—Edgar C. Horton, Junior Meteorologist.*Assistant.*—Mrs. Mary H. Smith.*Under observer.*—Roland H. Carmichael.**BISMARCK, N. DAK.^(a)**

(Center of North Dakota Section, Climatological Service)

In charge.—Orris W. Roberts, Associate Meteorologist.*Assistants.*—Frank J. Bavendick.

George F. Brewster.

Meyer S. Cohen.

Harry M. Hoffman.

Louis J. Solheim.

Laborer.—Donovan W. Lewis.**BLOCK ISLAND, R. I.^(a)***In charge.*—Henry T. Peace, Senior Observer.**BOISE, IDAHO**

(Center of Idaho Section, Climatological Service)

In charge.—Harry G. Carter, Associate Meteorologist.*Assistants.*—George F. Von Eschen.

John W. Duncan.

Raymond E. Duncan.

Urho O. Kiltinen.

Minor observer.—Ezra T. Brumbach.^a Quarters, fuel, and light provided for official in charge.

BOSTON, MASS.

(Center of New England Section, Climatological Service)

In charge.—G. Harold Noyes, Senior Meteorologist.*Assistants.*—Mark T. Nesmith.

John H. Bonzagni.

Charles A. Woodworth.

Albert C. Flahive.

George Grimminger.

Robert A. Hoover.

Edward Sable.

Fire-weather.—Miles J. Finnegan.*Printer.*—Stephen S. Medeiros.*Under observer.*—Burton F. Loveless.*Minor observer.*—John F. Sherwin.*Assigned to Massachusetts Institute of Technology, Agents (Bankhead-Jones Act).**In charge.*—Carl-Gustaf A. Rossby.

Jerome Namais.*

Frank A. Arsenault.*

Chaim L. Pekeris.

Harold J. Hennessey.*

Victor P. Starr.§

George D. Lukes.*

Hurd C. Willett.*

Ethan A. Murphy.*

*Assigned to Harvard, Agents (Bankhead-Jones Act).**In charge.*—Donald H. Menzel.*

Hobert W. French, Jr.*

*AIRPORT (East Boston).**In charge.*—Emil A. P. Raab.*Assistants.*—Milton F. Barlow.

Paul J. Divver.

Dwight A. Rigney.

Philip Reiter.

John M. Cohen.

Albert V. Carlin.

*MOUNT WASHINGTON, N. H.**In charge.*—Irving I. Zellon.**BROWNSVILLE, TEX.**

(Center of Fruit-frost Service, Rio Grande Valley district)

In charge.—William J. Schnurbusch, Associate Meteorologist.*Assistants.*—Myron H. Carpenter.

Wesley W. Griffith.

Ottis C. Bobbitt.

*AIRPORT.**In charge.*—Lawrence N. Despain.*Assistants.*—Roland V. Bell.

Harvey C. Korr.

Robert L. Richardson.

William O. Sisk.

BUFFALO, N. Y.*In charge.*—James H. Spencer, Senior Meteorologist.*Assistants.*—Andrew P. Keller.

Michael J. Cocuzzi.

Leslie C. Fields.

Printer.—Charles Willig.*Minor observer.*—*AIRPORT.**In charge.*—Edward F. Stapowich.*Assistants.*—Ernest W. G. Kliemann.

Joseph J. Poitras.

Louis Goldman.

Albert Richmond.

BURLINGTON, IOWA

(Station located at airport)

In charge.—Sterling R. Hatch, Assistant Observer.

* Temporary appointment. § Regular employee.

BURLINGTON, VT.^(a)*In charge.*—Milton W. Dow, Assistant Meteorologist.*Assistants.*—George L. Courville.

Frank Lewis.

Under observers.—Adolph A. Bander.

Trafford G. Dimick.

CAIRO, ILL.*In charge.*—William E. Barron, Associate Meteorologist.*Assistant.*—Joseph F. McGruder.*Minor observer.*—Loren H. Waite.**CANTON, N. Y.^(a)***In charge.*—Hobert E. Heyer, Junior Meteorologist.*Minor observer.*—Mrs. Mildred G. Everett.**CAPE HENRY, VA.^(a1)***In charge.*—Clement R. White, Assistant Meteorologist.*Repairman.*—Harris M. Perry.*Laborers.*—Joseph J. Lane.

Richard H. Timberlake.

CENTERVILLE, IND.

(Station located at airport)

In charge.—Lynn L. Means, Assistant Observer.**CHARLES CITY, IOWA^(a)***In charge.*—Edwin G. Larson, Junior Meteorologist.**CHARLESTON, S. C.***In charge.*—John E. Lockwood, Assistant Meteorologist.*Assistants.*—Robert C. Aldredge.

Mart G. Baldwin.

Under observer.—Archib E. Shaw, Jr.*Minor observer.*—James F. Cox, Jr.**CHARLOTTE, N. C.***In charge.*—James M. Howe, Assistant Meteorologist.*Assistant.*—Franklin W. Long.**AIRPORT.***In charge.*—Thomas L. Gibson.*Assistants.*—W. Howard Ulsh.

Junius K. Farlowe.

Foster Hensel.

Under observers.—Paul J. Bowers.

Charles S. Syer.

CHATTANOOGA, TENN.*In charge.*—Carl E. Hadley, Assistant Meteorologist.*Assistant.*—Calvin W. Cochran.*Minor observer.*—Paul K. Himburg.^a Quarters, fuel, and light provided for official in charge.^{a1} Quarters, fuel, and light provided for official in charge and repairman.

CHEHALIS, WASH.

(Station located at airport)

In charge.—George A. Tiller, Assistant Observer.**CHEYENNE, WYO.**

(Center of Wyoming Section, Climatological Service)

In charge.—Fred L. Disterdick, Associate Meteorologist.*Assistants.*—Leo G. Clapp.

Horace C. Dwelle.

Minor observer.—Mrs. Margaret S. Smith.**AIRPORT.***In charge.*—Herbert C. Springman.*Assistants.*—Lyle B. Rasey.

John C. Eberhardt.

Henry S. Huber.

Charles R. Rhoades.

Merle H. Wittmeyer.

CHICAGO, ILL.

(Center of Forecast District embracing Illinois, Indiana, Michigan, Wisconsin, Minnesota, Missouri, Iowa, Kansas, Nebraska, South Dakota, North Dakota, and the Upper and Lower Lakes, and of Corn- and Wheat-region Service)

In charge.—Charles A. Donnel, Principal Meteorologist.*Forecaster.*—Joseph R. Lloyd.*Fire-weather and relief forecaster.*—Harry A. Downs.*Assistants.*—Owen T. Lay.

Charles F. Jespersen.

Edward A. Lawler.

Milton O. Swenson.

Frederick J. Thomas.

Jacob L. Miller.

Vernon W. Schaad.

Hyman Tavis.

Oscar Tenenbaum.

Darrell E. Maiden.

James J. Smith.

Samuel M. Bromberg.

Hyman Goodman.

Joseph Matelson.

Joseph E. Schober.

Printer.—Blake Spenny.*Junior clerk.*—Mrs. Louise M. Hunse.*Under operative.*—Harry Lerner.*Minor observer.*—Anthony C. Rutkas.**AIRPORT—General Supervising Station.***In charge.*—Vincent E. Jakl, Meteorologist.*Assistants.*—Reinhart C. Schmidt.

Mac A. Emerson.

Henry L. Jacobson.

Hjalmar A. A. Ruth.

George N. Brancato.

Charles R. Comstock.

Leonard T. Olson.

George R. Borders.

Carlos A. Lively.

Arthur M. Marks, Jr.

Max M. Feinsilber.

Howard S. Kenny.

Vern S. Holmes.

CINCINNATI, OHIO^(*)*In charge.*—William C. Devereaux, Senior Meteorologist.*Assistants.*—William B. Schlomer.

Julian T. Gray.

Under observer.—Franklin K. Stout.*Minor observer.*—Frederick L. Catiller.

Earl S. McLaughlin.

Myron H. Feitshans.

^(*) Quarters, fuel, and light provided for official in charge

CINCINNATI, OHIO—Continued
AIRPORT.*In charge.*—Ralph W. Carey.*Assistants.*—Thomas J. Hiner.

Dix E. Newton.

Lester S. Fodor.

Ross A. Snider.

CLEVELAND, OHIO*In charge.*—Ralph C. Mize, Senior Meteorologist.*Assistants.*—Milton W. Davis.

Leon Rothenberg.

Cyrus H. Eshleman.

Printer.—William K. Wettrich.*Minor observers.*—Julius D. Adelstein.

Henry W. Henderson.

AIRPORT—General Supervising Station.*In charge.*—Clarence G. Andrus, Meteorologist.*Assistants.*—Richard A. Garrett.

J. Conrad Huddle.

George H. Brown.

Herbert H. Bomalaski.

Foster V. Jones.

Edward J. Fencil.

Wilbur W. Oak.

Archie Bloom.

Fred A. Baughman.

Clifford J. Haight.

Edward J. Clasby.

Sidney Teweles, Jr.

COLUMBIA, MO.*In charge.*—Orlin R. Rogers, Junior Meteorologist.*Minor observer.*—Monroe A. Lanham.**COLUMBIA, S. C.**

(Center of South Carolina Section, Climatological Service)

In charge.—Gerald C. Merchant, Associate Meteorologist.*Assistants.*—John L. Baldwin.

Thomas L. Long.

Minor observer.—T. Levy Ogilvie.**COLUMBUS, OHIO**

(Center of Ohio Section, Climatological Service)

In charge.—John C. Fisher, Senior Meteorologist.*Assistants.*—Leon K. W. Walters.

Bruce M. Benton.

Arthur C. Lockwood.

Printer.—Edward F. Harold.*Minor observer.*—Melvin Seppeler.**AIRPORT.***In charge.*—Arnold E. McKenzie.*Assistants.*—Robert N. Cogswell.

James E. Stork.

Roger G. Plaster.

Loren P. Leech.

CONCORD, N. H.*In charge.*—Archibald D. Ross, Assistant Meteorologist.*Under observer.*—Paul E. Ericson.**CONCORDIA, KANS.***In charge.*—Edward C. Corkill, Junior Meteorologist.*Assistant.*—Elton M. Gard.

CORPUS CHRISTI, TEX.

In charge.—Joseph P. McAuliffe, Associate Meteorologist.

Assistant.—Charlie J. Raven.

Minor observer.—Thomas J. Mireur.

CROWN POINT, OREG.

(For Airway Service only)

In charge.—Harold D. Fickenscher, Assistant Observer.

DALLAS, TEX.

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

Assistants.—William B. Shope.

John P. Toland.

Under observer.—Aubrey L. Haynie.

AIRPORT.

In charge.—Emil T. Lange.

Assistants.—William J. Ashcraft.

James F. Combs, Jr.

Under observers.—James P. Grove, Jr.

Willoughby T. Strange.

DAVENPORT, IOWA

In charge.—Truman G. Shipman, Associate Meteorologist.

Assistants.—George H. F. Allmendinger.

Elven S. McDonough.

Minor observer.—Clarence W. Timberman.

AIRPORT (Moline, Ill.)

In charge.—Oliver Arnold.

Assistants.—Eldon C. Baird.

I. Arden Koonts.

Joseph A. Grace.

Under observers.—Wilbur F. Pearson.

DAYTON, OHIO

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

Assistants.—Norman R. Lown.

Lilburn H. Seamon.

Minor observer.—Robert E. Koogler.

DEL RIO, TEX.

In charge.—Harold L. Molyneux, Junior Meteorologist.

Assistants.—Leo W. Weaver.

John A. Copeland.

William H. Bierbower.

DENVER, COLO.

(Center of Forecast District embracing Colorado, New Mexico, Arizona, Utah, Wyoming, and Montana; and of Colorado Section, Climatological Service)

In charge.—Edwin B. Gittings, Principal Meteorologist.

Forecaster.—Albert W. Cook.

Assistants.—Walter M. Weld.

Robert S. Gephardt.

Harry F. Choun.

Albert L. Congdon.

Jonathan O. Becker.

Carl F. Steffan.

Glover L. Blinde.

Printer.—Winfred M. Koenig.

Minor observer.—Ernest Sherril.

DENVER, COLO.—Continued
AIRPORT.

In charge.—Howard W. Fenner.

Assistants.—Henry C. Snyder.

Roy F. Miller.

Orville A. Noell.

Edward P. Richards.

DES MOINES, IOWA

(Center of Iowa Section, Climatological Service)

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

Assistants.—Sylvester E. Decker.

Burton Salisbury.

Wayne A. McDaniel.

Gerald T. Beall.

Under observer.—Wayne H. Bartlett.

Minor observer.—Joseph M. Davis.

DETROIT, MICH.

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

Assistants.—Arthur W. Walstrom.

Don E. Coleman.

Lester Epstein.

Earl N. Hoffman.

Under observer.—George N. Orlich.

AIRPORT.

In charge.—Floyd H. Pearson.

Assistants.—Harold L. Julien.

Roger S. Frantz.

Guy C. Anderson.

John M. Williams.

DEVILS LAKE, N. DAK.^(*)

In charge.—Robert E. Kearney, Junior Meteorologist.

Minor observer.—Vaughn D. Rockney.

DODGE CITY, KANS.

In charge.—Aloysius E. Osborn, Junior Meteorologist.

Assistants.—Hubert W. Reynolds.

James T. Arnold.

DUBUQUE, IOWA

In charge.—L. Walter Dick, Assistant Meteorologist.

Assistants.—George R. Marth.

Woodrow J. Radle.

DULUTH, MINN.^(*)

In charge.—Fred H. Weck, Associate Meteorologist.

Assistants.—Carl G. Morten.

A. Lauritz Larsen.

Minor observer.—Francis W. Trumbull.

EAST LIVERPOOL, OHIO

(Station located at airport)

In charge.—Herbert F. Huennekens, Assistant Observer.

EASTPORT, MAINE

In charge.—Matthew I. Peacock, Junior Meteorologist.

Minor observer.—Sherman M. Browster.

^(*) Quarters, fuel, and light provided for official in charge.

ELKINS, W. VA.

In charge.—Harris A. Jones, Junior Meteorologist.

Assistant.—Lewis B. Law.

EL PASO, TEX.

In charge.—Robert M. Shaver, Assistant Meteorologist.

Assistant.—Herbert D. Ives.

Minor observer.—George M. Fugate.

AIRPORT.

In charge.—Richard T. Fox.

Assistants.—Charles H. Newton.

Raymond H. Janson.

Clement A. Richard.

Dwight W. Benton.

Rudolph M. Haisfield.

ELY, NEV.

(Station located at airport)

In charge.—Clayton B. Crooker, Junior Meteorologist.

Assistants.—Joseph J. Strachila.

Robert W. Parry.

ERIE, PA.

In charge.—Ralph W. Thomas, Assistant Meteorologist.

Assistant.—John R. Swartz.

Minor observer.—Francis L. Flynn.

ESCANABA, MICH.

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

Assistant.—Richard S. Patek.

EUGENE, OREG.

(Station located at airport)

In charge.—Martin J. Fuerst, Assistant Observer.

EUREKA, CALIF.

In charge.—James M. Jones, Junior Meteorologist.

Assistant.—Roderick D. Graham.

Under observer.—Mrs. Lulu R. Jones.

Minor observer.—Edward H. Tornroth.

EVANSVILLE, IND.

In charge.—Ellwood E. Unger, Associate Meteorologist.

Assistants.—John C. Hagan.

Willard L. Cheesman.

Owen Butler.

Under observers.—Phillip S. Hertzberger.

Jere B. Scott.

FAIRBANKS, ALASKA

In charge.—O. Kenneth Anderson, Assistant Meteorologist.

Assistants.—John W. Paul.

James F. Rink.

FLOYD BENNETT FIELD, N. Y.

(P. O., Brooklyn, N. Y. Station located at airport)

In charge.—Edgar J. Saltsman, Junior Meteorologist.*Assistants.*—Arland W. Ewing.

Julius Marcus.

Nelson E. Spence.

Under observers.—Arthur Deutsch.

Henry G. Kaplan.

FORT SMITH, ARK.*In charge.*—Walter C. Hickmon, Assistant Meteorologist.*Assistant.*—Harold E. Baughman.**FORT WAYNE, IND.***In charge.*—Bernard B. Whittier, Assistant Meteorologist.*Assistant.*—Donald S. Post.*Minor observer.*—Parley A. Lucas.**FORT WORTH, TEX.***In charge.*—Paul S. Cook, Assistant Meteorologist.*Minor observer.*—Harold A. Smith.**AIRPORT.**—General Supervising Station.*In charge.*—Henry P. Adams, Meteorologist.*Assistants.*—James H. Ferguson.

Gordon D. Cartwright.

Malcolm C. Harrison.

Paul H. Kutschenreuter.

Arnold Matros.

Wilmer L. Thompson.

Clifford G. Wilson.

Dexter T. Gouge.

Raymond H. Powell.

Graham L. Allen.

Ronald M. Mills.

Walter P. Roquemore.

FRESNO, CALIF.*In charge.*—Walter E. Bonnett, Assistant Meteorologist.*Assistants.*—Harry L. Bahr.

W. Gordon Wylie.

Heston A. Forbes.

Under observer.—Milford E. Anthony.*Minor observer.*—Donald A. Mathews.**GAINESVILLE, TEX.**

(Station located at airport)

In charge.—James R. Moreland, Assistant Observer.**GALVESTON, TEX.***In charge.*—George P. Rusmisl, Assistant Meteorologist.*Assistants.*—Alvie E. McGrew.

Wesley Irvin.

Under observer.—Lloyd T. Armstrong.**GRAND ISLAND, NEBR.**

(Station located at airport)

In charge.—George M. Baird, Assistant Observer.**GRAND JUNCTION, COLO.***In charge.*—Ernest L. Felton, Assistant Meteorologist.*Assistants.*—Marvel G. Chinn.

Robert L. Weaver.

Gilbert L. Sternes.

GRAND RAPIDS, MICH.

In charge.—Paul E. Johnson, Assistant Meteorologist.

Assistant.—Leonard J. Rossman.

Under observer.—Walter F. Kaminski.

Minor observer.—Adrian J. Penninga.

GREEN BAY, WIS.

In charge.—Fred Cone, Junior Meteorologist.

Under observer.—Fred S. Robinson.

GREENSBORO, N. C.

(Station located at airport)

In charge.—James P. Molen, Assistant Meteorologist.

Assistants.—Ernest C. Johnson.

David A. Burt.

George C. Allen.

Claude K. Vestal.

GREENVILLE, S. C.

In charge.—George V. Fish, Assistant Meteorologist.

Under observer.—Walter R. Hall.

HARRISBURG, PA.

In charge.—Leslie F. Conover, Assistant Meteorologist.

Assistants.—Cecil R. Peck.

Kurt M. Muerdter.

Minor observer.—John E. Foster.

AIRPORT.

In charge.—Anthony C. Hemmersbaugh.

Assistants.—Alvin F. Seebode.

Willard A. Brownlee.

Lawrence C. Pierce.

Lyle B. Callahan.

HARTFORD, CONN.

In charge.—Henry E. Hathaway, Assistant Meteorologist.

Assistant.—Abraham Zwecher.

HATTERAS, N. C.⁽¹⁾

In charge.—Richard B. Dailey, Junior Meteorologist.

Assistant.—Reuben W. Banks.

HAVRE, MONT.⁽¹⁾

In charge.—Frank A. Math, Assistant Meteorologist.

Assistants.—Robert A. Kennedy.

Wallace W. Lamoreux.

Minor observer.—

HELENA, MONT.

(Center of Montana Section, Climatological Service)

In charge.—William E. Maughan, Associate Meteorologist.

Assistants.—Henry C. Slenes.

Martin A. Issenhuth.

Lorenz C. Armstrong.

Minor observer.—James Travis.

¹ Quarters, fuel, and light provided for official in charge.

HONOLULU, HAWAII

(Center of Forecast District; and of Hawaiian Section, Climatological Service)

In charge.—Walter F. Feldwisch, Associate Meteorologist.*Assistants.*—Elmer F. Loveridge.

Laurence W. Browne.

HOUSTON, TEX.

(Center of Texas Section, Climatological Service)

In charge.—Clinton E. Norquest, Senior Meteorologist.*Assistants.*—Edward A. Farrell, Jr.

William A. Bradley.

Gayle S. Adams.

Lewis Risinger.

Tedrow R. Swaim.

Printer.—John C. Adams.*Minor observer.*—Cecil W. Kennedy.**AIRPORT.***In charge.*—Henry C. Winburn.*Assistants.*—Lee Bender.

Ernest D. Seale.

George C. Denman.

Allen A. Stripling.

HURON, S. DAK.

(Center of South Dakota Section, Climatological Service)

In charge.—Bernard R. Laskowski, Associate Meteorologist.*Assistants.*—Philip G. McGinnis.

Max K. Bankert.

Under observer.—Richard N. Cook.*Minor observer.*—Dale R. Green.**AIRPORT.***In charge.*—Albert H. Eichmeier.*Assistants.*—Emmet T. Grace.

Charles L. Bristor.

Warren O. Langer.

Theodore W. Kleinsasser.

INDIANAPOLIS, IND.

(Center of Indiana Section, Climatological Service)

In charge.—John H. Armington, Senior Meteorologist.*Assistants.*—Warren J. Rice.

Escal S. Bonnett.

Fred H. Ackelov.

Printer.—Jacob J. Smith.*Minor observer.*—Ira D. Boyle.**AIRPORT.***In charge.*—Arthur C. Wagner.*Assistants.*—Paul G. Barrett.

Sheldon J. Peirce.

Oren E. Edrington.

Under observer.—Harry L. Grimes.**IOWA CITY, IOWA***Hydrologic Office (University of Iowa).**In charge.*—Bertram S. Barnes, Associate Hydraulic Engineer.*Assistant.*—Jerome van de Erve.*Weather Bureau Office (located at airport).**In charge.*—Fred B. Flocken, Assistant Observer.

ITHACA, N. Y.

(Center of New York Section, Climatological Service)

In charge.—Harry O. Geren, Meteorologist.*Assistants.*—Fred I. Moses.

Sidney Lees.

Philip H. Stevens.

Minor observer.—Earl G. Terwilliger.**JACKSONVILLE, FLA.**

(Center of Forecast District embracing North Carolina, South Carolina, Georgia, and Florida, except the extreme northwestern portion; and of Florida Section, Climatological Service)

In charge.—Walter J. Bennett, Senior Meteorologist.*Forecasters.*—Grady Norton.

Gordon E. Dunn.

Assistants.—Harry Armstrong.

Ira C. Plummer.

Warren O. Johnson.

B. Harold Quattlebaum.

Phillip B. Skillman.

Ernest G. Bice.

Wendell V. Harris.

Charles E. Hutchinson.

Leslie E. Russell.

Printer.—Charles D. Walker.*Minor observer.*—Sam R. Hurlbut.**AIRPORT.***In charge.*—Alfred Y. Wolfe.*Assistants.*—Lewis Hayes.

Gordon M. Kraft.

Jacob T. B. Beard.

Ernest W. Green.

JOLIET, ILL.

(Station located at airport)

In charge.—Russell V. Wilgus, Assistant Observer.**JUNEAU, ALASKA**

(Center of Forecast District, and of Alaskan Section, Climatological Service)

In charge.—Howard J. Thompson, Meteorologist.*Assistants.*—Harry W. Douglas.

Donnell H. Gould.

John J. Keyser.

Gilbert L. Prucha.

Eugene W. McCollum.

KALISPELL, MONT.*In charge.*—Ellison S. Mark, Junior Meteorologist.**KANSAS CITY, MO.***In charge.*—Andrew M. Hamrick, Meteorologist.*Assistants.*—Thomas A. Lawler.

Howard H. Martin.

Stuart E. Cravens.

*Hydrologic Office (River and Flood Service), Missouri River Region.**In charge.*—Vacant.*Assistant.*—Ernest J. Christie.**AIRPORT.**—General Supervising Station.*In charge.*—Leslie A. Warren, Meteorologist.*Assistants.*—Robert V. Lawrence.

John H. Aldrich.

Arlie R. Lowery.

Ernest M. Rampey.

John E. Hovde.

William W. Swayne.

Earl S. Hanlon.

Mark W. Ellett.

Lawrence O. Oliver.

John C. Hurley.

Lyndon T. Rodgers.

Martin T. Honke, Jr.

KEOKUK, IOWA*In charge.*—Chester O. Tucker, Junior Meteorologist.*Assistant.*—Gervin N. Pitzen.*Minor observer.*—Bertram C. Ullrich.**KEY WEST, FLA.^(*)***In charge.*—Gerald S. Kennedy, Assistant Meteorologist.*Assistants.*—Samuel M. Goldsmith. Clyde L. Hughes.

Delance O. Martin.

KNOXVILLE, TENN.*In charge.*—John E. Sanders, Assistant Meteorologist.*Assistants.*—Berl L. Henry.

James E. Miller.

David Haber.

Gilley T. Stephens.

Cecil R. Jobe.

Minor observer.—Max Slomowitz.**KYLERTOWN, PA.**

(Station located at airport)

In charge.—David Bruce, Junior Meteorologist.*Assistants.*—John Courtney.

William D. Goldstein.

Joseph Vederman.

Paul L. Moore.

LA CROSSE, WIS.^(*)*In charge.*—Albert D. Sanial, Junior Meteorologist.*Assistant.*—Norman A. Matson.**LAGUNA BEACH, CALIF.**

(For Airway Service only)

In charge.—Donald G. Clark, Assistant Observer.**LAKELAND, FLA.**

(Fruit-frost Service only)

In charge.—Eckley S. Ellison, Meteorologist.*Assistants.*—Alfred L. Lorenz.

Milton L. Blanc.

Bernard H. Moore.

Armand L. Griggs.

Leonard G. Pardue, Jr.

James W. Milligan.

Charles G. Reeves.

Philip J. Powell.

Ray T. Sherouse.

LANDER, WYO.*In charge.*—Norbert G. Ribble, Junior Meteorologist.*Assistant.*—Robert J. Ewers.**LANSING, MICH.^(*)**

(P. O., East Lansing, Mich.)

(Center of Michigan Section, Climatological Service)

In charge.—H. Merrill Wills, Meteorologist.*Assistants.*—Arkas E. White.

Garrett De Mota, Jr.

Otho W. Crawford.

Minor observer.—Chauncey H. Emmett.^{*}Quarters, fuel, and light provided for official in charge.

LAS VEGAS, NEV.

(Station located at airport)

In charge.—Clarence V. Lang, Senior Observer.*Assistants.*—Merle A. Brown.

William F. Metcalf, Jr.

Zeal Borem.

LINCOLN, NEBR.

(Center of Nebraska Section, Climatological Service)

In charge.—Thomas A. Blair, Senior Meteorologist.*Assistants.*—Walter F. Rumbaugh.

Wayne C. Palmer.

Kenneth W. Kemper.

Printer.—*Minor observer.*—Burton W. Smith.**AIRPORT.***In charge.*—William J. Bryan.**LITTLE ROCK, ARK.**

(Center of Arkansas Section, Climatological Service)

In charge.—Harvey S. Cole, Associate Meteorologist.*Assistants.*—Oscar D. Neumann.

George C. Martin.

Printer.—Leon F. Paladée.*Under observer.*—Luther M. Bivins.*Minor observer.*—Thomas P. Fleming, Jr.**LONG BEACH, CALIF.**

(Station located at airport)

In charge.—Floyd E. Hug, Assistant Observer.**LOS ANGELES, CALIF.***In charge.*—Lawrence H. Daingersfield, Senior Meteorologist.*Assistants.*—Ray L. Fisher.

David Greenfield.

Mark H. Stanley.

Kenneth E. Stanley.

Minor observer.—James L. Wheelock.**AIRPORT.**—General Supervising Station (Burbank).*In charge.*—George M. French, Meteorologist.*Assistants.*—Edwin H. Jones.

Eugene H. Quinn.

Claude V. Brown.

Harold C. Harvey.

Cecil R. Guern.

Nelson R. Williams.

Thomas A. Mason.

Paul A. Arnerich.

Kenneth C. Fink.

William J. Houmark.

Howard E. Hutchison.

William G. Duggin.

LOUISVILLE, KY.

(Center of Kentucky Section, Climatological Service)

In charge.—James L. Kendall, Meteorologist.*Assistants.*—Joseph F. Jungermann.

Richard H. Mills.

Printer.—John B. Harris.*Minor observer.*—Harry M. Parrent, Jr.*

* Temporary appointment.

LYNCHBURG, VA.

In charge.—Frank C. Hood, Assistant Meteorologist.

Assistants.—David E. Nicholson.

Robert Segal.

MACON, GA.

In charge.—George A. Clark, Junior Meteorologist.

Assistant.—Emile A. Morrison, Jr.

MADISON, WIS.

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

Assistants.—Rupert J. Batz.

Robert J. Ahrens.

MARQUETTE, MICH.

In charge.—Howard B. Cowdrick, Assistant Meteorologist.

Under observer.—Arthur LaCombe.

MARSHALL, MO.

(Station located at airport)

In charge.—Ivory P. Rennels, Assistant Observer.

MEDFORD, OREG.

(Station located at airport)

In charge.—William J. Hutchison, Assistant Meteorologist.

Assistants.—Vernor T. Davis.

Charles R. Nelson.

Clarence E. Watson.

Robert T. Small.

MEMPHIS, TENN.

In charge.—Frederick W. Brist, Associate Meteorologist.

Assistants.—John D. Letsinger.

Jesse E. Barnes.

Harold F. Murray.

Minor observer.—Carl A. Scott.

AIRPORT.

In charge.—Chester A. Sutor.

Assistants.—Cecil E. Carney.

Talmage L. Banister.

William H. Banks.

William M. Rowe.

MERIDIAN, MISS.

In charge.—Arthur R. Long, Assistant Meteorologist.

Assistant.—Melvin W. Moore.

Under observer.—Rollo H. Dean.

MIAMI, FLA.

In charge.—Ernest Carson, Associate Meteorologist.

Assistants.—Ralph L. Higgs.

William B. Chappell.

Robert L. Redus.

Minor observer.—Max H. Warren.*

AIRPORT.

In charge.—John L. Alden.

Assistants.—Walter R. Davis.

Herman L. Croom.

Trent V. Hilkey.

Robert W. Pinder, Jr.

* Temporary appointment.

MILES CITY, MONT.

In charge.—William C. Chapin, Junior Meteorologist.

MILWAUKEE, WIS.

(Center of Wisconsin Section, Climatological Service)

In charge.—Frank H. Coleman, Meteorologist.

Assistants.—Bernard N. White.

Ralph S. Wolbach.

Alvar Ahola.

Printer.—Edward F. Gress.

Under observer.—William J. Trebbe.

MINNEAPOLIS, MINN.

(Center of Minnesota Section, Climatological Service)

In charge.—Martin R. Hovde, Meteorologist.

Assistants.—William M. Labovich.

Adolph Neumann.

Printer.—Eugene L. Madvig.

Minor observer.—Ellsworth A. Anderson.

AIRPORT (Minneapolis).

In charge.—William J. Ziegler.

Assistants.—Laurel W. Dahlin.

Edward J. Dolezel.

Carl G. Peterson.

Harry A. Pool.

AIRPORT (St. Paul).

In charge.—Oscar E. Olson.

MISSOULA, MONT.

In charge.—Berne P. Hughes, Assistant Meteorologist.

Assistant.—Torrence H. MacDonald.

Albert D. Nemecek.

Walter A. Herrick.

Fire-weather.

In charge.—Ralph T. Hanna.

Assistant.—George M. Grover.

MOBILE, ALA.

In charge.—Frank T. Cole, Assistant Meteorologist.

Assistant.—William L. Tilson.

Under observer.—Carl R. Byrd.

Minor observer.—William J. Fuqua.

MODENA, UTAH⁽¹²⁾

In charge.—James T. Williams, Senior Observer.

Assistants.—Arthur W. Youmans.

Reid B. Gardner.

MONTAGUE, CALIF.

(Station located at airport)

In charge.—George R. Ieghorn, Assistant Observer.

¹²Quarters, fuel, and light provided for official in charge and first assistant.

MONTGOMERY, ALA.

(Center of Alabama Section, Climatological Service)

In charge.—Eugene D. Emigh, Associate Meteorologist.*Assistants.*—Harold A. Sawyer.

Floyd C. Pate.

Cecil Cagle.

Lucius P. Spicer.

Under observer.—Coleman W. O'Neal.**AIRPORT.***In charge.*—Henley T. Foreman.**MOORHEAD, MINN.***In charge.*—Roy J. McClurg, Junior Meteorologist.*Assistant.*—Elmer F. Welander.**AIRPORT.** (*Fargo, N. Dak.*)*In charge.*—Ralph W. Schultz.*Assistants.*—Leroy A. Coffin.

Murl V. Renneke.

Vernon K. Best.

William Malkin.

Paul E. Chrestenson.

Ford C. Sodergren.

MOUNT SHASTA, CALIF.

(Fire-weather Service only)

In charge.—Thomas W. Booth, Junior Meteorologist.*Assistant.*—Wilbert R. Krumm.**MUSKEGON, MICH.**

(Station located at airport)

In charge.—Clifford D. Hall, Assistant Observer.**NANTUCKET, MASS.⁽¹⁾***In charge.*—George E. Grimes, Junior Meteorologist.*Assistant.*—David E. Perlman.**NASHVILLE, TENN.**

(Center of Tennessee Section, Climatological Service)

In charge.—Robert M. Williamson, Meteorologist.*Assistants.*—Arthur R. Coe.

Ray E. Hamilton.

Printer.—Sidney W. Overton.*Under observer.*—Carl A. Sutton.**AIRPORT.***In charge.*—William B. Drawbaugh.*Assistants.*—Arville C. Gibson.

Charles B. Johnson.

Harland Richards.

George D. Taylor.

Clarence A. Woolum.

Robert C. Walker.

NEW HAVEN, CONN.*In charge.*—Joseph M. Kirk, Associate Meteorologist.*Assistant.*—George D. Wickham.

Willard E. Dickinson.

AIRPORT.*In charge.*—Norman R. Hastings.¹ Quarters, fuel, and light provided for official in charge.

NEW ORLEANS, LA.

(Center of Forecast District embracing Louisiana, Texas, Oklahoma, Arkansas, Mississippi, Alabama, and northwestern Florida; issues advisory warnings for Mexico; has charge of cooperation between Mexican Weather Service and United States Weather Bureau; center of Louisiana Section, Climatological Service, and of Cotton-region Service)

In charge.—Willard F. McDonald, Principal Meteorologist.

Forecasters.—Ray A. Dyke.

Welby R. Stevens.

Assistants.—Percy J. Naughton.

George L. Canaday,

Thomas B. Canaday, Jr.

Ralph H. Yarbrough.

Joseph J. V. Dobry.

Ernest Roger, 3d.

Thomas C. Wilson.

Robert F. Hasling.

Printer.—Paul J. Dunkle.

Junior operative (stenographer).—Wilbur K. Shear.

Under observer.—Clifford J. Galliot.

Minor observer.—Joseph H. Van Geffen.

AIRPORT.

In charge.—Cecil E. Mahaffey.

Assistants.—Leonce J. Guigou.

Robert J. Waite.

William C. Knoph.

Osborn T. Barrett.

NEW YORK, N. Y.

In charge.—James H. Kimball, Principal Meteorologist.

Assistants.—Benjamin Parry.

Lloyd E. Brotzman.

James W. W. Osmun.

Herbert E. Cole.

David R. Morris.

Llewellyn Raplee.

William A. Chambers, Jr.

James W. Decker.

Frank Gemmill, 3d.

Sigmund Fritz.

Ralph Maggio.

Printer.—Anthony A. Hock.

Under observer.—Samuel Smith.

Minor observers.—Harry M. Itskowitz.

Philip Zwirn.

AIRPORT—General Supervising Station (Newark, N. J.)

In charge.—Wilson Reed, Jr., Meteorologist.

Assistants.—Bernard L. Wiggin.

James J. Cassidy.

Gerald P. Crawford.

Ralph Sanders.

Percy H. Chapman.

Joseph J. Eigenmann.

Henry R. McQueen.

Louis Landau.

Arthur J. Crowshaw.

Alfred B. Kline.

Wendell E. Cowdrick.

George S. Mitchell.

Ben H. Russler.

NOME, ALASKA ⁽⁹⁸⁾

In charge.—Roswell V. Dobbs, Senior Observer.

Assistant.—Leonard J. C. Hedine.

NORFOLK, VA.

In charge.—John J. Murphy, Associate Meteorologist.

Assistants.—Don R. Dobbins.

Mack L. Chappell.

Under observer.—William A. Fitton.

⁹⁸ Quarters, fuel, and light provided for all employees.

NORTHFIELD, VT.^(a)

In charge.—Charles N. Bemis, Junior Meteorologist.

NORTH HEAD, WASH.^(a^b)

(P. O., Ilwaco, Wash.)

In charge.—Malcolm Rigby, Junior Meteorologist.

Assistant.—Austin C. Goheen.

Laborer.—Charles E. Hubbard.

NORTH PLATTE, NEBR.^(a)

In charge.—Alphonso W. Shilling, Assistant Meteorologist.

Assistant.—Chauncey A. Whittelsey.

Under observer.—Samuel F. Wright.

Minor observer.—Lee W. Heaton, Jr.

OKLAHOMA CITY, OKLA.^(a)

(Center of Oklahoma Section, Climatological Service)

In charge.—Harry F. Wahlgren, Meteorologist.

Assistants.—Frank B. Whitney.

Frank E. Caldwell.

Printer.—Jimmie W. Tresner.

Under observer.—Kermit P. Dodd.

Minor observer.—Laverne L. Sandy.

AIRPORT.

In charge.—Charles O. Schick.

Assistants.—Sterling Bunch.

Joseph L. H. Paulhus.

Dwight F. Gibson.

John W. Hayes.

John F. Wilhoit.

Bryan Braley.

Curtis M. Eggers.

OMAHA, NEBR.

In charge.—Millard V. Robins, Meteorologist.

Assistants.—Elmore D. Knarr.

Robert R. Arnold.

Fred P. Trilety.

AIRPORT.

In charge.—Homer W. Ball.

Assistants.—Stanley W. Rampy.

Wendell Hammons.

Dale R. Harris.

Daniel J. Maguire.

Lawrence M. Dye.

Frederick D. Peake.

OSWEGO, N. Y.

In charge.—Harold K. Gold, Junior Meteorologist.

PALESTINE, TEX.

In charge.—Elbert A. Owen, Junior Meteorologist.

Minor observer.—John M. Sharpe, Jr.

^a Quarters, fuel, and light provided for official in charge.

^b Quarters, fuel, and light provided for all employees.

PARKERSBURG, W. VA.

(Center of West Virginia Section, Climatological Service)

In charge.—Stanley S. Schworm, Associate Meteorologist.*Assistants.*—Harry C. DeMent.

Carl L. Wilson.

Minor observer.—William F. Hines, Jr.**PASADENA, CALIF.***Fire-weather Service only.**In charge.*—Francis C. Crombie, Assistant Meteorologist.*Assistant.*—Arvy A. Lothman (at San Francisco during off-season.)*Assigned to California Institute of Technology, Agents (Bankhead-Jones Act).*

Walter M. Elsasser.*

Homer J. Stewart.*

PENDLETON, OREG.

(Station located at airport)

In charge.—J. Howard Whipple, Junior Meteorologist.*Assistants.*—Louis M. Jones.

Rex R. Rhoten.

Benjamin F. Feldt.

Jack A. Witter.

PENSACOLA, FLA.*In charge.*—Andrew R. W. Stoesen, Assistant Meteorologist.*Assistant.*—Harry L. Collins.*Minor observer.*—Merton D. Nelson.**PEORIA, ILL.^(a)***In charge.*—Merton L. Fuller, Assistant Meteorologist.*Assistant.*—Alvin D. Murphy, Jr.*Minor observer.*—Theodore T. Phillips.**PHILADELPHIA, PA.**

(Center of Pennsylvania Section, Climatological Service)

In charge.—George S. Bliss, Senior Meteorologist.*Assistants.*—Frank H. Ahearn.

Abraham Arnold.

Harold M. Sampson.

Fredric C. Hamburg.

Warren M. Miller.

Printer.—James F. McCloy.*Under observer.*—Gean Di Lauro, Jr.*Minor observers.*—Albert A. Dubin.

Morton J. Rubin.

AIRPORT—(Camden, N. J.).*In charge.*—Herbert L. Alkire.*Assistants.*—Charles L. Dannheiser.

Pierce S. Rosenberg.

James W. Anderson.

Richard J. Smith.

PHOENIX, ARIZ.

(Center of Arizona Section, Climatological Service)

In charge.—Gershom K. Greening, Associate Meteorologist.*Assistants.*—Cecil T. Terry.

Wendell F. Shultz.

John M. Lanning.

Under observer.—Edmund P. Norwood.*Minor observer.*—Hilary L. Pride, Jr.

* Temporary appointment.

^a Quarters, fuel, and light provided for official in charge.

PITTSBURGH, PA.*In charge.*—William S. Brotzman, Meteorologist.*Assistants.*—Charles A. Belt.

Fralan L. Dix.

Aubrey W. Hustead.

Harold M. Philofsky.

Minor observer.—George J. Schafer.*Hydrologic Office (River and Flood Service), Ohio River Region.**In charge.*—Henry Rockwood.*Assistant.*—James R. Miles.**AIRPORT.***In charge.*—Harry M. Gerber.*Assistants.*—Richard L. Sharpton.

Fred R. Maher.

John W. Magill.

Stephen J. Zubrecky.

POCATELLO, IDAHO

(Station located at airport)

In charge.—Harlan H. Smith, Junior Meteorologist.*Assistant.*—Alfred A. Rordame.

Lowell E. Carpenter.

Robert G. Hill.

Carroll A. Elford.

POMONA, CALIF.

(Fruit-frost Service only)

In charge.—Floyd D. Young, Senior Meteorologist.*Assistants.*—Roy J. Rogers.

Harold A. Rathbone.

Charles C. Allen.

Jack C. Thompson.

Leland H. Johnson.

Harry B. Hansen.

Claude A. Cole.

Wayne E. Harman.

Woodrow C. Jacobs.

Jack Janofsky.

Harold D. Lindquist.

PORT ARTHUR, TEX.*In charge.*—Everett W. Torrence, Assistant Meteorologist.*Assistants.*—Helmut A. Fusch.

Jerry T. Hilworth.

Minor observer.—Arthur F. Wolford, Jr.**PORTLAND, MAINE***In charge.*—Robert M. Dole, Assistant Meteorologist.*Under observer.*—John O. Lunt.**PORTLAND, OREG.**

(Center of Oregon Section, Climatological Service)

In charge.—Edward L. Wells, Senior Meteorologist.*Assistants.*—John E. Hissong.

Sam Naimark.

Elmer Fisher.

Kenneth E. Smith.

Nino Sunseri

*Fire-weather.**In charge.*—Charles I. Dague.*Assistant.*—Harold R. McBirney.*Printer.*—Eskil M. Nelson.*Minor observer.*—Arthur B. Ericson.**AIRPORT.***In charge.*—Clarence R. Kallquist.

Ralph W. Hester.

William G. Collins.

Arthur F. Holmberg.

Ivan F. Ellis.

PROVIDENCE, R. I.

In charge.—John Daily, Assistant Meteorologist.

Assistant.—Nicholas Ball, Jr.

Under observer.—Merton P. Mott.

AIRPORT.

In charge.—John J. Lavin.

PUEBLO, COLO.

In charge.—Glen H. Phillips, Assistant Meteorologist.

Assistant.—Orville R. Foster.

RALEIGH, N. C.

(Center of North Carolina Section, Climatological Service)

In charge.—Lee A. Denson, Associate Meteorologist.

Assistants.—Herbert E. Kichline.

John C. Scholl.

Printer.—Sherwood L. Jones.

Minor observer.—William B. Koonce.

RAPID CITY, S. DAK.

In charge.—Harley N. Johnson, Junior Meteorologist.

Assistant.—Roland R. Hamann.

Minor observer.—Lester B. Bell.

READING, PA.

In charge.—Charles S. Ling, Assistant Meteorologist.

Assistant.—Seymour Edelman.

REDDING, CALIF.

(Station located at airport)

In charge.—Roy A. Wells, Assistant Meteorologist.

Assistants.—Robert V. Ruoff.

Elmer M. Chadsey.

Will O. Siedentopf.

Harry L. Swift.

RENO, NEV.

(Center of Nevada Section, Climatological Service)

In charge.—George V. Sager, Associate Meteorologist.

Assistants.—Marcus A. Rice.

Oscar H. Hammonds.

Printer.—John A. McCarthy.

Minor observer.—John C. Lancaster.

AIRPORT.

In charge.—James L. Mack.

Assistants.—William A. Cupples.

Donald C. Merrill.

Paul E. Atkinson.

Philip Williams, Jr.

Jack H. Calvert.

RICHMOND, VA.⁽¹⁾

(Center of Virginia Section, Climatological Service)

In charge.—Foy N. Hibbard, Associate Meteorologist.

Assistants.—Lloyd L. Knapp.

Arvid S. Klemetsmo.

Printer.—Ernest T. Wettrich.

Minor observer.—Floyd E. Dabney.

¹ Quarters, fuel, and light provided for official in charge.

RICHMOND, VA.—Continued
AIRPORT.

In charge.—Reuben M. Frost.

Assistants.—Willie J. Strickland.

J. Harold Nickles.

Charles B. Carney.

Parke P. Starke, Jr.

ROCHESTER, N. Y.

In charge.—Jesse L. Vanderpool, Assistant Meteorologist.

Assistant.—James S. Collier.

Minor observers.—James P. Malloy.

AIRPORT.

In charge.—Francis V. Kohl.

Assigned to University of Rochester, Agents (Bankhead-Jones Act).

In charge.—Brian O'Brien.*

Harold S. Stewart, Jr.*

Paul E. John.*

ROCK SPRINGS, WYO.

(Station located at airport)

In charge.—Ralph W. Neick, Junior Meteorologist.

Assistants.—Lloyd H. Magar.

Frank M. Asbell.

Kenneth R. Clark.

Leonard L. Weiss.

ROSEBURG, OREG.

In charge.—Jack C. McCallister, Junior Meteorologist.

Assistant.—Marcus L. Berke.

ROSWELL, N. MEX.

In charge.—Cleve Hallenbeck, Assistant Meteorologist.

Assistant.—Gerald F. Moynihan.

SACRAMENTO, CALIF.

In charge.—Edgar H. Fletcher, Associate Meteorologist.

Assistants.—Wallace A. Bertrand.

James O. Savage.

Under observer.—Vincent F. Stanich.

AIRPORT.

In charge.—Philip A. Hastings.

Assistant.—Chester M. Veliquette.

Under observers.—William J. Rogers.

Gerald I. Truitt.

ST. CLOUD, MINN.

(Station located at airport)

In charge.—Carl A. Olson, Assistant Observer.

ST. JOSEPH, MO.(¹)

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

Assistants.—Frederick T. Moser.

Raymond T. Gillam.

Under observer.—Joseph A. Goerlitz.

AIRPORT.

In charge.—Samuel K. Kerr.

* Temporary appointment.

¹ Quarters, fuel, and light provided for official in charge.

ST. LOUIS, MO.

(Center of Missouri Section, Climatological Service)

In charge.—Walter J. Moxom, Senior Meteorologist.*Assistants.*—Henry C. Gross.

Raymond P. Tipton.

Arthur A. Rausch.

Maranda R. Weldon.

William C. Drapier, Jr.

Printer.—Wesley M. Bennett.*Minor observer.*—Charles M. Johnston.*AIRPORT (Robertson).**In charge.*—George E. O'Daniel.*Assistants.*—Herbert D. Crawford.

William L. Denmark.

Joseph R. Kermis.

John L. Ford.

SALEM, OREG.

(Station located at airport)

In charge.—Julius T. Hopp, Assistant Observer.**SALT LAKE CITY, UTAH**

(Center of Utah Section, Climatological Service)

In charge.—J. Cecil Alter, Meteorologist.*Assistants.*—George P. Murphy.

Delwyn C. Rasmussen.

Howard D. Johnson.

Printer.—Samuel D. Green.*Under observer.*—Claude R. Bird.*Hydrologic Office (River and Flood Service), Mountain States Region.**In charge.*—Ashton R. Codd.*AIRPORT General Supervising Station.**In charge.*—Harry M. Hightman, Meteorologist.*Assistants.*—Clayton F. Van Thullenar.

H. Dean Parry.

Ralph M. Aldrich.

Harold T. Floreen.

John A. Cummings.

Blaine N. Ramsden.

Clarence A. Anderson.

Charles N. Brown.

Kenneth K. Baird.

Wayne Harrell.

Carl A. Carpenter.

J. Vern Hales.

Perry O. Epperly.

SAN ANTONIO, TEX.*In charge.*—James H. Jarboe, Associate Meteorologist.*Assistants.*—Edward H. Marx.

Harold P. Parker.

Wallace McG. Kerr.

Under observers.—J. Harvey Morgan.

Charles L. Overbay.

SANDBERG, CALIF.⁽¹⁸⁾*In charge.*—Edward E. Wilson, Observer.*Assistant.*—Edward R. Payette.¹⁸Quarters, fuel, and light provided for all employees.

SAN DIEGO, CALIF.*In charge.*—Dean Blake, Associate Meteorologist.*Assistants.*—Leon C. Walton.

Ray H. Hargett.

Under observer.—David Cohen.**AIRPORT.***In charge.*—C. Eugene Shepherd.*Assistants.*—Horace Franklin.

Daniel G. Sullivan.

John W. Fuller, Jr.

George W. Kalstrom.

SANDUSKY, OHIO*In charge.*—Claude C. Cooper, Assistant Meteorologist.*Assistant.*—James A. Mitchell.**SANDY HOOK, N. J.^(*)***In charge.*—Clarence F. Hand, Junior Meteorologist.*Assistant.*—Kenneth C. Murray.**SAN FRANCISCO, CALIF.**

(Center of Forecast District embracing California, Nevada, Washington, Oregon, and Idaho; and of California Section, Climatological Service; and of Pacific Vessel Weather Service)

In charge.—Edward H. Bowie, Principal Meteorologist.*Forecasters.*—Thomas R. Reed.

R. Corday Counts, Jr.

Climatologist.—Malcolm Sprague.*Assistants.*—Ernest E. Eklund.

John F. Voorhees.

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Tony B. Trexler.

Robert W. Craig.

James J. Jones.

Wilbert R. Krumm.

Leo A. Sergius.

Franklin J. Schaefer.

Francis J. Winters.

*Fire-weather.**In charge.*—Leslie G. Gray.*Assistants.*—Arvy A. Lothman (at Pasadena during fire-weather season).

Alexander Breese.

Printer.—Walter J. Hoffman.*Mechanic.*—Perry Parker.*Stenographer.*—Miss Margarette Richardson.*Under observers.*—Joseph B. Landau.

Halford A. Roberts.

Minor observer.—Robert C. Foote.**AIRPORT**—General Supervising Station (Oakland).*In charge.*—John A. Riley, Meteorologist.*Assistants.*—Edward M. Vernon.

Stephen Lichtblau.

Alfred W. Anderson.

Clarence E. Lamoureux.

Jesse W. Smith.

Edward V. Ashburn.

Dorsey P. Marting.

Eldred O. Mox.

Clarence L. Smalley.

Verne D. Steves.

Jean A. Brown.

C. Robert Elford.

Ervin J. Lager.

Richard D. Sanborn.

Victor M. Sproge.

^{*}Quarters, fuel, and light provided for official in charge.

SAN JUAN, PUERTO RICO⁽⁴⁾

(Center of Forecast District embracing eastern Caribbean region; of Puerto Rico Section, Climatological Service, and of West Indies and Caribbean Climatological Service)

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

Assistants.—Nathan Kronberg.

Americo Maldonado.

Hoye S. Dunham.

Under observer.—Ramiro G. Cintrón.

Minor observer.—Baltasar Jimenez.

Laborer.—Carlos Nieves.

SAN PEDRO, CALIF.

In charge.—Percy E. Garrison, Senior Observer.

SANTA FE, N. MEX.

In charge.—Jose A. Rivera, Minor Observer.

SAULT STE. MARIE, MICH.⁽⁴⁾

In charge.—Arthur F. Piippo, Assistant Meteorologist.

Assistant.—Vernon L. Simmons.

AIRPORT.

In charge.—Herbert H. Rahmloew.

Assistants.—Glenn M. Miller.

Milton F. Planert.

Glen V. Sachse.

Under observer.—Marshall J. Coulter.

SAVANNAH, GA.

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

Assistant.—Morris Steinberg.

Under observer.—Orville D. Lysaught.

Minor observer.—John D. Watson.

SCRANTON, PA.

In charge.—Ralph C. West, Assistant Meteorologist.

Assistant.—Abraham Spindel.

Minor observer.—John J. Gallas.

SEATTLE, WASH.

(Center of Washington Section, Climatological Service)

In charge.—Lawrence C. Fisher, Senior Meteorologist.

Assistants.—Perry R. Hill.

John B. Lightfoot.

Carroll M. Mage.

Richard O. Morelock.

Carlton E. Jencks.

Edward W. Nelson.

Harry E. Torbitt.

Fire-weather.

In charge.—J. Bernhard Melin.

Assistant.—Louis W. Jolliff.

Radio operator.—George H. Barnes.

Printer.—Leonard A. Wolff.

Minor observer.—Floyd L. Hanson.

³Quarters, fuel, and light provided for official in charge.

⁴Quarters, fuel, and light provided for official in charge and second and third assistants.

SEATTLE, WASH.—Continued**AIRPORT**—General Supervising Station.*In charge.*—Julius C. Smith, Meteorologist.*Assistants.*—Archer B. Carpenter.

Hubert A. Elliott.

Joe R. Fulks.

Victor T. Horn.

Louis R. Jurwitz.

Thomas E. Jermin.

Harry N. Weirauch.

Wendell H. Woodward.

Werlen F. Cheney.

Richard A. Dightman.

Rodney J. Andrus.

Wyatt T. Tovey.

Frederick N. Fitting.

SHERIDAN, WYO.^(a)*In charge.*—Will L. Wyland, Assistant Meteorologist.*Assistant.*—Zell E. Strader.*Minor observer.*—William A. Grimes.**SHREVEPORT, LA.***In charge.*—Arthur W. Pugh, Assistant Meteorologist.*Assistants.*—William B. Benson.

Jack L. Hudnall.

Under observer.—Jewel K. Hargis.**SIOUX CITY, IOWA***In charge.*—Reuben M. Anderson, Assistant Meteorologist.*Assistant.*—Eugene R. Iliff.*Under observer.*—Raymond L. Wilton.**SOUTH BEND, IND.**

(Station located at airport)

In charge.—Edmond F. Striker, Observer.*Assistants.*—Charlie J. Posepny.

Gustavus P. Meyer.

Under observers.—Robert F. Bratton.

Paul M. Hannum.

SPARTANBURG, S. C.

(Station located at airport)

In charge.—Marvin A. Baldwin, Assistant Meteorologist.*Assistants.*—Leroy C. Stone.

Charles A. Sabine.

Emmett E. Baldwin.

Legare Hamilton.

SPOKANE, WASH.*In charge.*—Elgie M. Keyser, Assistant Meteorologist.*Assistants.*—Thomas B. Hayward.

Donald D. Rule.

Under observer.—Richard J. McLane.**AIRPORT.***In charge.*—Winford J. Centen.*Assistants.*—Sherd T. Baldwin.

Wilbur F. McKinney.

Robert D. Church.

Jerome E. Wolff.

William F. Selfridge.

^aQuarters, fuel, and light provided for official in charge.

SPRINGFIELD, ILL.

(Center of Illinois Section, Climatological Service)

In charge.—Elward W. Holcomb, Meteorologist.*Assistants.*—Clifton L. Ray.

Carroll W. Arford.

Howard A. Rollins.

Printer.—Ivan L. Sackett.*Minor observer.*—Miss Nellie Lowe.***AIRPORT.***In charge.*—Harry V. Myers.*Assistants.*—Robert McM. Stuart.

Louis Bertoni.

Under observers.—William A. Muldoon.

William L. Sabine.

SPRINGFIELD, MO.*In charge.*—Charles C. Williford, Assistant Meteorologist.*Assistant.*—Jack C. Appleby.**SUNBURY, PA.**

(Station located at airport)

In charge.—Gilbert L. St. Clair, Assistant Observer.**SYRACUSE, N. Y.***In charge.*—William H. Tracy, Associate Meteorologist.*Assistant.*—Morris Rosenholtz.**AIRPORT.***In charge.*—Harold N. Burke.*Assistants.*—Seymour Schamach.

Joseph J. Adamo.

Under observers.—Seymour Friedman.

Idwal Parry.

TACOMA, WASH.*In charge.*—Fred Myers, Assistant Meteorologist.*Assistant.*—Ivan W. Brunk.**TAMPA, FLA.***In charge.*—William W. Talbott, Associate Meteorologist.*Assistants.*—Alfred W. Taylor.

Oscar N. Norman.

Charles F. Bradley, Jr.

Edward S. Sproles.

TATOOSH ISLAND, WASH.^(a)*In charge.*—Maurice P. Bergerson, Senior Observer.*Mechanic.*—Everett L. Sutton.*Assistant.*—Glenn M. Lee.**TERRE HAUTE, IND.***In charge.*—Otto E. Moery, Assistant Meteorologist.*Assistant.*—Joseph H. Hagarty.*Under observer.*—John W. Mindrup.

*Temporary appointment.

^aQuarters, fuel, and light provided for all employees.

TOLEDO, OHIO

In charge.—Frank E. McLeary, Assistant Meteorologist.

Assistant.—Frank W. Gallier.

Minor observer.—Francis X. Clark.

TOPEKA, KANS.

(Center of Kansas Section, Climatological Service)

In charge.—Snowden D. Flora, Meteorologist.

Assistants.—Andrew D. Robb.

Russell J. Younkin.

Donald A. Justice.

Roy L. Fox.

Printer.—Robert M. Evans.

TRENTON, N. J.

(Center of New Jersey Section, Climatological Service)

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

Assistants.—Frank H. Trolle-Steenstrup.

John K. Temperley.

Raymond O. Smith.

Minor observer.—William D. Cooper.

VALENTINE, NEBR.

In charge.—Lloyd D. Vaughan, Junior Meteorologist.

Assistant.—Loren J. N. Allison.

VICKSBURG, MISS.

(Center of Mississippi Section, Climatological Service)

In charge.—Robert T. Lindley, Associate Meteorologist.

Assistants.—Horace L. Pugh.

Gerald C. Bristow.

Under observer.—Charles L. Nelson.

Minor observer.—James L. Tyler.

WALLA WALLA, WASH.

In charge.—Charles C. Garrett, Assistant Meteorologist.

Assistant.—Robert A. Halverson.

WAYNOKA, OKLA.

(Station located at airport)

In charge.—Harold Alexander, Assistant Observer.

WICHITA, KANS.

In charge.—Alonzo A. Justice, Assistant Meteorologist.

Assistants.—Earl E. Nicholas.

Leslie W. Bosworth.

AIRPORT.

In charge.—Herschel D. Smith.

Assistants.—Jacob P. Maltry.

Herman Friedman.

Walter C. Williamson.

Kenneth W. Matthews.

WILLISTON, N. DAK.

In charge.—Ross O. Miller, Junior Meteorologist.

Assistant.—Milo P. Monson.

Minor observer.—John D. Quinn.

WILMINGTON, N. C.*In charge.*—Paul Hess, Assistant Meteorologist.*Assistant.*—James H. Huff.*Minor observer.*—Lahmann B. Crye.***WINNEMUCCA, NEV.^(a)***In charge.*—Lester A. Staples, Junior Meteorologist.*Assistants.*—Harwood F. Jackson.

William M. Schmalz.

Rupert L. Jennings.

WINSLOW, ARIZ.

(Station located at airport)

In charge.—Victor V. Phillips, Junior Meteorologist.*Assistants.*—Miles M. Wyland.

Will M. Givins.

Richard E. Carter.

Harold J. Evans.

WOLF CREEK, OREG.

(For Airway Service only)

In charge.—Alois G. Topil, Assistant Observer.**WYTHEVILLE, VA.***In charge.*—Samuel B. Trotter, Junior Meteorologist.**YAKIMA, WASH.***In charge.*—Ivan E. Anderson, Assistant Meteorologist.*Assistant.*—Gilbert F. Grafton.**YELLOWSTONE PARK, WYO.^(a)***In charge.*—Charles L. Howard, Assistant Meteorologist.*Assistant.*—J. Roe Heller.**YUMA, ARIZ.^(a)***In charge.*—James H. Gordon, Junior Meteorologist.*Minor observer.*—Ralph H. Pulsifer.**ASSIGNED TO UNIVERSITIES**

Aime, E. Allan.....California Institute of Technology.... Pasadena, Calif.
 Ballard, John C.....New York University..... New York, N. Y.
 Knarr, Aurel J.....Massachusetts Institute of Technology. Cambridge, Mass.
 Norquest, Kenneth S..California Institute of Technology.... Pasadena, Calif.
 Randall, Dwight L...Massachusetts Institute of Technology. Cambridge, Mass.

ON DUTY AT MOUNT WEATHER, VA.*Mechanic.*—James E. Fowler.*Laborer.*—Ammie P. Fowler.

* Temporary appointment.

^a Quarter, fuel, and light provided for official in charge.

ON LEAVE WITHOUT PAY

Brodie, Bernard.....	Chicago, Ill.
Brown, Homer F.....	Peoria, Ill.
Culnan, Robert N.....	San Francisco, Calif.
Decker, Fred W.....	Pendleton, Oreg.
Garstens, Martin A.....	Buffalo, N. Y.
Grantham, William P.....	Topeka, Kans.
Hilton, Duncan E.....	Havre, Mont.
Hoffberg, Miss Ruth.....	Springfield, Ill.
Kolb, Eugene E.....	San Francisco, Calif.
McGregor, Clifford J.....	New York, N. Y.
Magee, Arthur R.....	Topeka, Kans.
Malecki, Conrad A.....	Sault Ste. Marie, Mich.
Mendelson, Joseph U.....	Cleveland, Ohio
O'Toole, Morgan J.....	Washington, D. C.
Neiburger, Morris.....	Chicago, Ill.
Sanders, Robert A.....	Nashville, Tenn.
Weiss, Thomas M.....	Denver, Colo.
Woffinden, Charles M.....	Salt Lake City, Utah.

ADDRESSES OF RETIRED EMPLOYEES

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 Bennett, Thomas R. 1032 Kenyon Street NW., Washington, D. C.
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 Brown, Joseph. 1340 Wallach Place NW., Washington, D. C.
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 Cline, Isaac M. 5333 Prytania Street, New Orleans, La.
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 Sullivan, Richard H. R. F. D. No. 5, Edgewood, Columbia, S. C.
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INDEX

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Anderson, Nils G.....	Washington	Baughman, Harold E.....	Fort Smith
Anderson, O. Kenneth.....	Fairbanks	Bavendick, Frank J.....	Bismarck
Anderson, Reuben M.....	Sioux City	Baxter, Dahl.....	Washington
Anderson, Roland L.....	Arlington	Beall, Gerald T.....	Des Moines
Anderson, Thomas L.....	Washington	Beard, Jacob T. B.....	Jacksonville
Anderson, Mrs. Virginia M.....	Washington	Becker, Jonathan O.....	Denver
Andrus, Clarence G.....	Cleveland	Belden, William S.....	St. Joseph
Andrus, Rodney J.....	Seattle	Bell, Lester B.....	Rapid City
Angell, Farris E.....	Washington	Bell, Miss Mary E.....	Washington
Anthony, Milford E.....	Fresno	Bell, Roland V.....	Brownsville
Appleby, Jack C.....	Springfield, Mo.	Belt, Charles A.....	Pittsburgh
Artford, Carroll W.....	Springfield, Ill.	Belt, George H.....	Washington
Armhold, David, 8d.....	Washington	Bemis, Charles N.....	Northfield
Armington, John H.....	Indianapolis	Bender, Lee.....	Houston
Armstrong, Davisson.....	Washington	Bennett, Escal S.....	Indianapolis
Armstrong, Harry.....	Jacksonville	Bennett, Walter J.....	Jacksonville
Armstrong, Lloyd T.....	Galveston	Bennett, Wesley M.....	St. Louis
Armstrong, Lorenz C.....	Helena	Benson, William B.....	Shreveport
Arnerich, Paul A.....	Los Angeles	Benton, Bruce M.....	Columbus
Arnold, Abraham.....	Philadelphia	Benton, Dwight W.....	El Paso
Arnold, James T.....	Dodge City	Bergerson, Maurice P.....	Tatoosh Island
Arnold, Oliver.....	Davenport	Berke, Marcus L.....	Roseburg
Arnold, Robert R.....	Omaha	Bernard, Merrill.....	Washington
Arnote, Mrs. Pauline M.....	Washington	Bertoni, Louis.....	Springfield, Ill.
Arsenault, Frank A.*.....	Boston	Bertrand, Wallace A.....	Sacramento
Asbell, Frank M.....	Rock Springs	Best, Vernon K.....	Moorhead
Ashburn, Edward V.....	San Francisco	Bice, Ernest G.....	Jacksonville
Ashcraft, William J.....	Dallas	Bierbower, William H.....	Del Rio
Atkinson, Paul E.....	Reno	Bily, Joseph, Jr.....	Baltimore
		Bird, Claude R.....	Salt Lake City

*Temporary appointment. II Assigned to university.

Bishop, Miss Eleanor G.	Washington	Brumbach, Ezra T.	Boise
Bivins, Luther M.	Little Rock	Brunk, Ivan W.	Tacoma
Blair, Thomas A.	Lincoln	Bryan, William J.	Lincoln
Blake, Dean	San Diego	Bunch, Sterling.	Oklahoma City
Blanc, Milton L.	Lakeland	Burg, Alfred C.	Washington
Blinde, Glover L.	Denver	Burke, Harold N.	Syracuse
Bliss, George S.	Philadelphia	Burns, Francis M.	Washington
Bloom, Archie.	Cleveland	Burt, David A.	Greensboro
Blumenauer, Robert E. L., Jr.	Washington	Bush, Donald A.	Atlanta
Bobbitt, Ottis C.	Brownsville	Butler, Benjamin F.	Washington
Boland, William A.	Atlanta	Butler, Owen.	Evansville
Bolen, Charles E.	Washington	Byers, Horace R.	Washington
Bollay, Eugene.	Washington	Byrd, Carl R.	Mobile
Bomalaski, Herbert H.	Cleveland	Caffrey, Mrs. Laura M.	Washington
Bonnett, Walter E.	Fresno	Cagle, Cecil.	Montgomery
Bonzagni, John H.	Boston	Calder, Louis N.	Washington
Booth, Thomas W.	Mount Shasta	Caldwell, Frank E.	Oklahoma City
Borders, George R.	Chicago	Caldwell, William D.	Washington
Borders, Robert C.	Billings	Callahan, Lyle B.	Harrisburg
Borem, Zeal.	Las Vegas	Calvert, Edgar B.	Washington
Bosworth, Leslie W.	Wichita	Calvert, Jack H.	Reno
Bowers, Paul J.	Charlotte	Cameron, Donald C.	Washington
Bowie, Edward H.	San Francisco	Camper, Claudia M.	Washington
Bowie, Glenn L.	Anchorage	Canaday, George L.	New Orleans
Boyle, Ira D.	Indianapolis	Canaday, Thomas B., Jr.	New Orleans
Bradley, Charles F., Jr.	Tampa	Carey, Ralph W.	Cincinnati
Bradley, William A.	Houston	Carlin, Albert V.	Boston
Brady, James M.	Albuquerque	Carmichael, Roland H.	Birmingham
Braley, Bryan.	Oklahoma City	Carney, Cecil E.	Memphis
Brancato, George N.	Chicago	Carney, Charles B.	Richmond
Bratton, Robert F.	South Bend	Carpenter, Archer B.	Seattle
Bray, J. Theodore.	Washington	Carpenter, Carl A.	Salt Lake City
Breese, Alexander.	San Francisco	Carpenter, Lowell E.	Pocatello
Brennan, John J.	Washington	Carpenter, Myron H.	Brownsville
Brennan, Thomas J.	Washington	Carson, Ernest	Miami
Brewster, George F.	Bismarck	Carstensen, Louis P.	Arlington
Brewster, Sherman M.	Eastport	Carter, Miss Grace W.	Washington
Brice, Miss June E.	Washington	Carter, Harry G.	Boise
Brickles, David E.	Washington	Carter, Richard E.	Winslow
Brightenburg, Allen C.	Washington	Cartwright, Gordon D.	Fort Worth
Brinks, Mrs. Isabelle J.	Washington	Cassidy, James J.	New York
Briscoe, Henry C.	Washington	Catiller, Frederick L.	Cincinnati
Brist, Frederick W.	Memphis	Caudle, Frederick L.	Washington
Bristor, Charles L.	Huron	Centen, Winford J.	Spokane
Bristow, Gerald C.	Vicksburg	Chadsey, Elmer M.	Redding
Brodie, Bernard †.	See page 41	Chambers, Marshall J.	Arlington
Bromberg, Samuel M.	Chicago	Chambers, William A., Jr.	New York
Brooks, Arthur W.	Atlanta	Chapin, William C.	Miles City
Brooks, Thomas R.	Washington	Chapman, Percy H.	New York
Brotzman, Lloyd E.	New York	Chappell, Edward H.	Anchorage
Brotzman, William S.	Pittsburgh	Chappell, Mack L.	Norfolk
Brown, Charles N.	Salt Lake City	Chappell, William B.	Miami
Brown, Claude V.	Los Angeles	Cheesman, Willard L.	Evansville
Brown, George H.	Cleveland	Cheney, Werlen F.	Seattle
Brown, Miss Hazel G.	Washington	Chinn, Marvel G.	Grand Junction
Brown, Homer F. †.	See page 41	Choate, Herbert L.	Washington
Brown, James E.	Washington	Choun, Harry F.	Denver
Brown, Jean A.	San Francisco	Chrestenson, Paul E.	Moorhead
Brown, Merle A.	Las Vegas	Christie, Ernest J.	Kansas City
Brown, Moses H.	Washington	Church, Robert D.	Spokane
Brown, William H.	Baltimore	Cintrón, Ramiro G.	San Juan
Browne, Laurence W.	Honolulu	Claffin, Frederick F.	Washington
Brownlee, Willard A.	Harrisburg	Clapp, Leo G.	Cheyenne
Bruce, David	Kylertown	Clapp, Philip F.	Washington
Bruen, John V.	Washington	Clark, Charles C.	Washington

†On leave without pay.

Clark, Donald G.	Laguna Beach	Cullen, Mrs. Rose I.	Washington
Clark, Francis X.	Toledo	Culnan, Robert N. †	See page 41
Clark, George A.	Macon	Cummings, John A.	Salt Lake City
Clark, Kenneth R.	Rock Springs	Cummings, Miss Mary K.	Washington
Clasby, Edward J.	Cleveland	Cupples, William A.	Reno
Cline, Joseph L.	Dallas	Curtis, Richard W.	Washington
Cochrane, Calvin W.	Chattanooga	Curtis, Robert H.	Arlington
Cocuzzi, Michael J.	Buffalo	Dabney, Floyd E.	Richmond
Codd, Ashton R.	Salt Lake City	Dague, Charles I.	Portland, Oreg.
Coe, Arthur R.	Nashville	Dahlin, Laurel W.	Minneapolis
Coen, Thomas D.	Alpena	Daliley, Richard B.	Hatteras
Coffin, LeRoy A.	Fargo	Daily, John.	Providence
Cogswell, Robert N.	Columbus	Daingerfield, Lawrence H.	Los Angeles
Cohen, David.	San Diego	Dame, George E.	Washington
Cohen, John M.	Boston	Dannheiser, Charles L.	Camden
Cohen, Meyer S.	Bismarck	Dashiell, B. Francis.	Washington
Cole, Claude A.	Pomona	Davidson, Robert E.	Washington
Cole, Frank T.	Mobile	Davis, Joseph M.	Des Moines
Cole, Harold B.	Washington	Davis, Milton W.	Cleveland
Cole, Harvey S.	Little Rock	Davis, Robert R.	Amarillo
Cole, Herbert E.	New York	Davis, Vernor T.	Madford
Coleman, Don E.	Detroit	Davis, Walter R.	Miami
Coleman, Frank H.	Milwaukee	Day, Wilfred P.	Washington
Collier, James S.	Rochester	Dean, James M.	Washington
Collins, Mrs. Elizabeth G.	Washington	Dean, John J.	Washington
Collins, Harry L.	Pensacola	Dean, Rollo H.	Meridian
Collins, William G.	Portland, Oreg.	Decker, Fred W. †	See page 41
Collman, Herman T.	Amarillo	Decker, James W.	New York
Combs, James F., Jr.	Dallas	Decker, Sylvester E.	Des Moines
Constock, Charles R.	Chicago	Deitch, Samuel.	Atlantic City
Cone, Fred.	Green Bay	De La Vergne, Asa W.	Washington
Congdon, Albert L.	Denver	DeMars, Arthur J.	Washington
Connor, Mrs. Margaret G.	Washington	De Ment, Harry C.	Parkersburg
Conover, Leslie F.	Harrisburg	De Mott, Garrett, Jr.	Lansing
Council, Thomas C., Jr.	Augusta	Denman, George C.	Houston
Cook, Albert W.	Denver	Denmark, William L.	St. Louis
Cook, Paul S.	Fort Worth	Denson, Lee A.	Raleigh
Cook, Richard N.	Huron	Desmond, Ralph H.	Atlanta
Cooper, Claude C.	Sandusky	Despain, Lawrence N.	Brownsville
Cooper, William D.	Trenton	Deutsch, Arthur.	Floyd Bennett
Coover, John W.	Washington	Devaney, James L.	Washington
Copeland, John A.	Del Rio	Devereaux, William C.	Cincinnati
Corbin, Everts.	Washington	Dick, L. Walter.	Dubuque
Corkill, Edward C.	Concordia	Dickinson, Willard E.	New Haven
Cornelius, Rolen L.	Atlanta	Dickson, Howard W.	Washington
Coulter, Marshall J.	Sault Ste. Marie	Dightman, Richard A.	Seattle
Counts, R. Corday, Jr.	San Francisco	Di Lauro, Gean, Jr.	Philadelphia
Courtney, John.	Kylertown	Dimick, Trafford G.	Burlington, Vt.
Courville, George L.	Burlington Vt.	Disterdiek, Fred L.	Cheyenne
Covert, Roy N.	Washington	Diver, Paul J.	Boston
Cowdick, Howard B.	Marquette	Dix, Fralan L.	Pittsburgh
Cowdrick, Wendell E.	Newark	Dobbins, Don R.	Norfolk
Cox, James F., Jr.	Charleston	Dobbs, Roswell V.	Nome
Cox, William C.	Washington	Dobry, Joseph J. V.	New Orleans
Craig, Robert W.	San Francisco	Dodd, Kermit P.	Oklahoma City
Cravens, Stuart E.	Kansas City	Doering, Carroll J.	Washington
Crawford, Gerald P.	New York	Dole, Robert M.	Portland, Me.
Crawford, Herbert D.	St. Louis	Dolezel, Edward J.	Minneapolis
Crawford, James J.	Washington	Donnel, Charles A.	Chicago
Crawford, Marion E.	Washington	Douglas, Harry W.	Juneau
Crawford, Otho W.	Lausing	Dow, Milton W.	Burlington, Vt.
Crombie, Francis C.	Pasadena	Downs, Harry A.	Chicago
Crooker, Clayton B.	Ely	Drapier, William C., Jr.	St. Louis
Croom, Herman L.	Miami	Drawbaugh, William B.	Nashville
Crowshaw, Arthur J.	New York	Drury, R. French.	Washington
Crye, Lahmann B.*	Wilmington		

* Temporary appointment. † On leave without pay.

Dubin, Albert A	Philadelphia	Finkelstein, Arthur W.	Washington
Duggin, William J.	Los Angeles	Finnegan, Miles J.	Boston
Duncan, John W.	Boise	Fish, George V.	Greenville
Duncan, Raymond E.	Boise	Fisher, Daniel.	Washington
Dunham, Hoyer S.	San Juan	Fisher, Edward F., Jr.	Washington
Dunkle, Paul J.	New Orleans	Fisher, Elmer.	Portland, Oreg.
Dunn, Gordon E.	Jacksonville	Fisher, John C.	Columbus
Dwelle, Horace C.	Cheyenne	Fisher, Lawrence C.	Seattle
Dyck, Homer D.	Washington	Fisher, Ray L.	Los Angeles
Dye, Lawrence M.	Omaha	Fitting, Frederick N.	Seattle
Dyke, Ray A.	New Orleans	Fitton, William A.	Norfolk
Eberhardt, John C.	Cheyenne	Fitzgibbons, Warren J.	Billings
Edelman, Bernard.	Washington	Flahive, Albert C.	Boston
Edelman, Seymour.	Reading	Flemming, Mrs. Ada.	Washington
Edge, John H.	Washington	Fleming, Thomas P., Jr.	Little Rock
Edrington, Oren E.	Indianapolis	Fletcher, Edgar H.	Sacramento
Edwards, William H.	Washington	Flocken, Fred B.	Iowa City
Eggers, Curtis M.	Oklahoma City	Flora, Snowden D.	Topeka
Ehringer, Miss Lula A.	Washington	Floreen, Harold T.	Salt Lake City
Eichmeier, Albert H.	Huron	Flynn, Francis L.	Erie
Eigenmann, Joseph J.	New York	Fodor, Lester S.	Cincinnati
Eklund, Ernest E.	San Francisco	Foote, Robert C.	San Francisco
Elder, Thaddeus H.	Washington	Forbes, Heston A.	Fresno
Elford, Carroll A.	Pocatello	Ford, John L.	St. Louis
Elford, C. Robert.	San Francisco	Foreman, Henley T.	Montgomery
Ellett, Mark W.	Kansas City	Foster, John E.	Harrisburg
Elliott, Hubert A.	Seattle	Foster, Norman B.	Asheville
Ellis, Ivan F.	Portland, Oreg.	Foster, Orville R.	Pueblo
Ellison, Eckley S.	Lakeland	Fowler, Ammie P.	Mount Weather
Elsasser, Walter M.*.	Pasadena	Fowler, James E.	Mount Weather
Emerson, Mac A.	Chicago	Fox, Elmer J.	Billings
Emigh, Eugene D.	Montgomery	Fox, Richard T.	El Paso
Emmett, Chauncey H.	Lansing	Fox, Roy L.	Topeka
Emmons, Gardner.	Washington	Frankel, Morris H.	Albany
Engell, Don Y.	Washington	Franklin, Ebert L.	Washington
Epperly, Perry O.	Salt Lake City	Franklin, Horace.	San Diego
Epstein, Lester.	Detroit	Frantz, Roger S.	Detroit
Ericson, Arthur B.	Portland, Oreg.	French, George M.	Los Angeles
Ericson, Paul E.	Concord	French, Hobert W., Jr.*.	Boston
Eshleman, Cyrus H.	Cleveland	Friedman, David.	Baltimore
Evans, Harold J.	Winslow	Friedman, Herman.	Wichita
Evans, Joseph W.	Augusta	Friedman, Seymour.	Syracuse
Evans, Robert M.	Topeka	Fritz, Sigmund.	New York
Everett, Mrs. Mildred G.	Canton	Frost, Reuben L.	Richmond
Ewing, Arland W.	Floyd Bennett	Fuerst, Martin J.	Eugene
Ewers, Robert J.	Lander	Fugate, George M.	El Paso
Farlowe, Junius K.	Charlotte	Fulks, Joe R.	Seattle
Farrell, Edward A., Jr.	Houston	Fuller, John W., Jr.	San Diego
Feinsilber, Max M.	Chicago	Fuller, Merton L.	Peoria
Feiss, Frederick T.	Washington	Fusch, Helmut A.	Port Arthur
Feitshans, Myron H.	Cincinnati	Fuqua, William J.	Mobile
Feldt, Benjamin F.	Pendleton	Gallas, John J.	Scranton
Feldheim, Monroe.	Washington	Gallenne, Jean H.	Washington
Feldwisch, Walter F.	Honolulu	Gallenne, Mrs. Martha J.	Washington
Felton, Ernest L.	Grand Junction	Gallier, Frank W.	Toledo
Fencl, Edward J.	Cleveland	Galliot, Clifford J.	New Orleans
Fenn, Robert M.	Apalachicola	Gard, Elton M.	Concordia
Fenner, Howard W.	Denver	Gardiner, James W.	Washington
Fenwick, Miss Helen W.	Washington	Gardner, Caroll W.	Washington
Ferguson, James H.	Fort Worth	Gardner, Reid B.	Modena
Fickenscher, Harold D.	Crown Point	Garrett, Charles C.	Walla Walla
Fields, Leslie C.	Buffalo	Garrett, Richard A.	Cleveland
Fillmore, Miss Mabel G.	Washington	Garrison, Percy E.	San Pedro
Fink, Kenneth C.	Los Angeles	Garstens, Martin A†.	See page 41
		Gemmell, Frank, 8d.	New York

* Temporary appointment. † On leave without pay.

Gephardt, Robert S.	Denver	Haidle, Arthur J.	Washington
Gerber, Harry M.	Pittsburgh	Haight, Clifford J.	Cleveland
Geren, Harry O.	Ithaca	Haines, William C.	Arlington
Gibson, Arville C.	Nashville	Haisfield, Rudolph M.	El Paso
Gibson, Dwight F.	Oklahoma City	Hales, J. Vern.	Salt Lake City
Gibson, Thomas L.	Charlotte	Hall, Clifford D.	Muskegon
Gilbert, Clarence G.	Washington	Hall, James.	Washington
Gillam, Raymond T.	St. Joseph	Hall, Walter R.	Greenville
Gilman, Charles S.	Washington	Hall, Warren.	Washington
Gittings, Edwin B.	Denver	Hallenbeck, Cleve.	Roswell
Givens, Will M.	Winslow	Halverson, Robert A.	Walla Walla
Gladden, Clare S.	Washington	Hamann, Roland R.	Rapid City
Glover, George J.	Washington	Hamburg, Fredric C.	Philadelphia
Goebel, Gerald E.	Washington	Hamilton, Legare.	Spartanburg
Goerlitz, Joseph A.	St. Joseph	Hamilton, Ray E.	Nashville
Goheen, Austin C.	North Head	Hamme, Clemmy C.	Baltimore
Gold, Harold K.	Oswego	Hammonds, Oscar H.	Reno
Goldman, Louis.	Buffalo	Hammons, Wendell.	Omaha
Goldsmith, Samuel M.	Key West	Hamrick, Andrew M.	Kansas City
Goldstein, William D.	Kylertown	Hand, Clarence F.	Sandy Hook
Goodman, Hyman.	Chicago	Hand, Irving F.	Washington
Gordon, James H.	Yuma	Hanlon, Earl S.	Kansas City
Gouge, Dexter T.	Fort Worth	Hanna, Ralph T.	Missoula
Gould, Donnell H.	Juneau	Hannum, Paul M.	South Bend
Grace, Emmett T.	Huron	Hansen, Harry B.	Pomona
Grace, Joseph A.	Davenport	Hanson, Floyd L.	Seattle
Grady, Dominic.	Atlantic City	Hardy, Eric L.	Albuquerque
Graf, Fred M.	Washington	Hargett, Ray H.	San Diego
Grafton, Gilbert F.	Yakima	Hargis, Jewel K.	Shreveport
Graham, Roderick D.	Eureka	Harman, Wayne E.	Pomona
Grant, Charles L.	Washington	Harmantas, Christos.	Washington
Grantham, William P. †.	See page 41	Harney, Patrick J.	Washington
Gray, Julian T.	Cincinnati	Harold, Edward F.	Columbus
Gray, Leslie G.	San Francisco	Harper, LaMar E.	Washington
Gray, Richard W.	San Juan	Harrell, Wayne.	Salt Lake City
Green Dale R.	Huron	Harris, Dale R.	Omaha
Green, Ernest W.	Jacksonville	Harris, John B.	Louisville
Green, Samuel D.	Salt Lake City	Harris, Miles F.	Washington
Green, William H.	Abilene	Harris, Wendell V.	Jacksonville
Greening, Gershon K.	Phoenix	Harrison, Louis P.	Washington
Greenfield, David.	Los Angeles	Harrison, Malcolm C.	Fort Worth
Greenwood, Newton C.	Binghamton	Harvey, Harold C.	Los Angeles
Gress, Edward F.	Milwaukee	Hasling, Robert F.	New Orleans
Griffith, Wesley W.	Brownsville	Hastings, Norman R.	New Haven
Griggs, Armand L.	Lakeland	Hastings, Philip A.	Sacramento
Grimes, George E.	Nantucket	Hatch, Sterling R.	Burlington, Iowa
Grimes, Harry L.	Indianapolis	Hathaway, Henry E.	Hartford
Grimes, William A.	Sheridan	Hayes, John W.	Oklahoma City
Grimminger, George.	Boston	Hayes, Lewis.	Jacksonville
Gross, Henry C.	St. Louis	Haynes, Mrs. Alice H.	Washington
Grove, James P., Jr.	Dallas	Haynes, Frank.	Austin
Grover, George M.	Missoula	Haynie, Aubrey L.	Dallas
Grubb, Russell C.	Albuquerque	Hayward, Thomas B.	Spokane
Guern, Cecil R.	Los Angeles	Heaton, Lee W., Jr.	North Platte
Guigou, Leonce J.	New Orleans	Hedine, Leonard J. C.	Nome
Gumpf, Ralph E.	Arlington	Heller, J. Roy.	Yellowstone Park
Gurnan, Miss Tzierel.	Washington	Hemmersbaugh, Anthony C.	Harrisburg
Guthrie, Leon J.	Dayton	Hemphill, Phillips P.	Atlanta
Haber, David.	Knoxville	Henderson, Henry W.	Cleveland
Hadley, Carl E.	Chattanooga	Henley, Frank T.	Baltimore
Hadley, Olin M.	Atlanta	Hennessy, Harold J.*.	Boston
Hafer, LeRoy F.	Washington	Henry, Berl L.	Knoxville
Hagan, John C.	Evansville	Henry, Henderson.	Washington
Hagarty, Joseph H.	Terre Haute	Hensel, Foster.	Charlotte
Hagen, Norman R.	Washington	Herrick, Walter A.	Missoula

* Temporary appointment. † On leave without pay.

Hertzberger, Phillip S.....	Evansville	Iliff, Eugene R.....	Sioux City
Hess, Mrs. Iva B.....	Washington	Irvin, Wesley.....	Galveston
Hess, Paul.....	Wilmington	Issenhuth, Martin A.....	Helena
Hester, Albert H.....	Amarillo	Itskowitz, Harry N.....	New York
Hester, Donald M.....	Washington	Ives, Herbert D.....	El Paso
Hester, Ralph W.....	Portland, Oreg.		
Heyer, Robert E.....	Canton	Jackson, Harwood F.....	Winnemucca
Hibbard, Foy N.....	Richmond	Jackson, Walter A.....	Washington
Hickmon, Walter C.....	Fort Smith	Jacobs, Woodrow C.....	Pomona
Higgs, Ralph L.....	Miami	Jacobson, Henry L.....	Chicago
Hightman, Harry M.....	Salt Lake City	Jaki, Vincent E.....	Chicago
Hilkey, Trent V.....	Miami	James, Charles E.....	Washington
Hill, Perry R.....	Seattle	James, George C.....	Washington
Hill, Robert G.....	Pocatello	James, Robert M.....	Baltimore
Hilton, Duncan E.†.....	See page 41	Janofsky, Jack.....	Pomona
Hilworth, Jerry T.....	Port Arthur	Janson, Raymond H.....	El Paso
Himburg, Paul K.....	Chattanooga	Jarboe, James H.....	San Antonio
Hiner, Thomas J.....	Cincinnati	Jefferson, Glen.....	Atlanta
Hines, William F., Jr.....	Parkersburg	Jencks, Carlton E.....	Seattle
Hissong, John E.....	Portland, Oreg.	Jennings, Arthur H.....	Washington
Hobbs, Hermann E.....	Washington	Jennings, Rupert L.....	Winnemucca
Hock, Anthony A.....	New York	Jermin, Thomas E.....	Seattle
Hoffberg, Miss Ruth†.....	See page 41	Jespersen, Charles F.....	Chicago
Hoffman, Earl N.....	Detroit	Jimenez, Baltasar.....	San Juan
Hoffman, Harry M.....	Bismarck	Jobe, Cecil R.....	Knoxville
Hoffman, Walter J.....	San Francisco	John, Paul E.*.....	Rochester
Hogan, Raymond P.....	Washington	Johnson, Charles B.....	Nashville
Holcomb, Elward W.....	Springfield, Ill.	Johnson, Ernest C.....	Greensboro
Holl, Mrs. Erna B.....	Washington	Johnson, George A.....	Baltimore
Holmberg, Arthur F.....	Portland, Oreg.	Johnson, Harley N.....	Rapid City
Holmes, Vern S.....	Chicago	Johnson, Howard D.....	Salt Lake City
Holst, William H. C.....	Washington	Johnson, Leland H.....	Pomona
Honke, Martin T., Jr.....	Kansas City	Johnson, Lewis E.....	Washington
Hood, Frank C.....	Lynchburg	Johnson, Paul E.....	Grand Rapids
Hoover, Robert A.....	Boston	Johnson, Warren O.....	Jacksonville
Hope, James J.....	Washington	Johnston, Charles M.....	St. Louis
Hopp, Julius T.....	Salem	Jolliff, Louis W.....	Seattle
Horn, Victor T.....	Seattle	Jones, Clifford.....	Washington
Horton, Edgar C.....	Birmingham	Jones, Edwin H.....	Los Angeles
Houmark, William J.....	Los Angeles	Jones, Foster V.....	Cleveland
Hovde, John E.....	Kansas City	Jones, Harris A.....	Elkins
Hovde, Martin R.....	Minneapolis	Jones, James J.....	San Francisco
Howard, Charles L.....	Yellowstone Park	Jones, James M.....	Eureka
Howe, James M.....	Charlotte	Jones, Leonard E.....	Washington
Hubbard, Charles E.....	North Head	Jones, Loren F.....	Akron
Huber, Henry S.....	Cheyenne	Jones, Louis M.....	Pendleton
Huddle, J. Conrad.....	Cleveland	Jones, Mrs. Lulu R.....	Eureka
Hudnall, Jack L.....	Shreveport	Jones, Paul R.....	Washington
Huennekens, Herbert F.....	East Liverpool	Jones, Sherwood L.....	Raleigh
Huff, James H.....	Wilmington	Jordan, Clarence R.....	Washington
Hug, Floyd E.....	Long Beach	Julien, Harold L.....	Detroit
Hughes, Berne P.....	Missoula	Jungermann, Joseph F.....	Louisville
Hughes, Clyde L.....	Key West	Jurwitz, Louis R.....	Seattle
Hughes, Everett H.....	Washington	Justice, Alonzo A.....	Wichita
Humphreys, William J.....	Washington	Justice, Donald A.....	Topeka
Hunse, Mrs. Louise M.....	Chicago		
Hunter, Herbert C.....	Washington	Kadel, Benjamin C.....	Washington
Hurd, Willis E.....	Washington	Kallquist, Clarence R.....	Portland, Oreg.
Hurlbut, Sam R.....	Jacksonville	Kalstrom, George W.....	San Diego
Hurley, John C.....	Kansas City	Kaminski, Walter F.....	Grand Rapids
Hustead, Aubrey D.....	Pittsburgh	Kaplan, Henry G.....	Floyd Bennett
Hutchinson, Charles E.....	Jacksonville	Kass, Mrs. Ruby R.....	Washington
Hutchison, Howard E.....	Los Angeles	Kearney, Robert E.....	Devils Lake
Hutchison, William J.....	Medford	Keefe, John R. F.....	Washington
Hutsler, Miss Darathea G.....	Washington	Keller, Andrew P.....	Buffalo
		Kemper, Kenneth, W.....	Lincoln

* Temporary appointment. † On leave without pay.

Kendall, James L.	Louisville	Larsen, A. Lauritz.	Duluth
Kennedy, Cecil W.	Houston	Larson, Edwin G.	Charles City
Kennedy, Gerald S.	Key West	Laskowski, Bernard R.	Huron
Kennedy, Robert A.	Havre	Lassen, Miss Alice M.	Washington
Kenny, Howard S.	Chicago	Lathrop, William T.	Escanaba
Kenworthy, Philip W.	Washington	Lavin, John J.	Providence
Kermis, Joseph R.	St. Louis	Law, Lewis B.	Elkins
Kernan, Raphael F.	Washington	Lawler, Edward A.	Chicago
Kernan, Thomas A.	Albany	Lawler, Howard S.	Atlanta
Kerr, Harvey C.	Brownsville	Lawler, Thomas A.	Kansas City
Kerr, Samuel K.	St. Joseph	Lawrence, Robert V.	Kansas City
Kerr, Wallace McG.	San Antonio	Lay, Owen T.	Chicago
Keyser, Elgie M.	Spokane	Lee, Glenn M.	Tatoosh Island
Keyser, John J.	Juneau	Lee, William D.	Washington
Kichline, Herbert E.	Raleigh	Lee, William S.	Washington
Kiernan, Miss Isabel C.	Washington	Leech, Loren P.	Columbus
Kiltinen, Urho O.	Boise	Lees, Sidney.	Ithaca
Kimball, James H.	New York	Leghorn, George R.	Montague
Kincer, Joseph B.	Washington	Lennahan, Charles M.	Washington
King, Albert L.	Washington	Lerner, Harry.	Chicago
King, Milford F.	Washington	Leshner, Mrs. Amy P.	Washington
King, Robert L.	Baker	Letsinger, John D.	Memphis
Kinnear, William E.	Washington	Levy, Henry.	Baltimore
Kirk, Joseph M.	New Haven	Lewis, Donovan W.	Bismarck
Kleindienst, Maurice F.	Washington	Lewis, Frank.	Burlington, Vt.
Kleinsusser, Theodore W.	Huron	Lichtblau, Stephen.	San Francisco
Klemtsmo, Arvid S.	Richmond	Light, Phillip.	Washington
Kliemann, Ernest W. G.	Buffalo	Lightfoot, John B.	Seattle
Kline, Alfred B.	New York	Lindgren, Gustave S.	Albany
Knapp, Loyd L.	Richmond	Lindley, Robert T.	Vicksburg
Knarr, Aurel J.	See page 40	Lindquist, Harold D.	Pomona
Knarr, Elmore D.	Omaha	Ling, Charles S.	Reading
Knoph, William C.	New Orleans	Little, Delbert M.	Washington
Knott, William J.	Washington	Lively, Carlos A.	Chicago
Koenig, Winfred M.	Denver	Lloyd, Joseph R.	Chicago
Kohl, Francis V.	Rochester	Lockwood, Arthur C.	Columbus
Kohler, Joseph P.	Washington	Lockwood, John E.	Charleston
Kolb, Eugene E.	See page 41	Long, Arthur R.	Meridian
Koogler, Robert E.	Dayton	Long, Franklin W.	Charlotte
Koonce, William B.	Raleigh	Long, Miss Olive M.	Washington
Koonts, I. Arden.	Davenport	Long, Thomas L.	Columbia, S. C.
Kraft, Gordon M.	Jacksonville	Long, Walter P.	Arlington
Kraft, Raymond H.	Albuquerque	Lorenz, Alfred L.	Lakeland
Kramer, Horace H., Jr.	Washington	Lothman, Arvy A.	{ Pasadena San Francisco
Kronberg, Nathan.	San Juan	Loveless, Burton F.	Boston
Krumm, Wilbert R.	San Francisco	Loveridge, Elmer F.	Honolulu
Kurtzweil, John P.	Akron	Lowe, Nellie M.*.	Springfield, Ill.
Kussman, Abraham S.	Albany	Lowery, Arlie R.	Kansas City
Kutschenreuter, Paul H.	Fort Worth	Lown, Norman R.	Dayton
Labovich, William M.	Minneapolis	Lucas, Parley A.	Fort Wayne
LaCombe, Arthur.	Marquette	Lukes, George D.*.	Boston
Lager, Ervin J.	San Francisco	Lunt, John O.	Portland, Me.
Lamoureux, Wallace W.	Havre	Luvisi, Mrs. Ethel F.	Washington
Lamoureux, Clarence E.	San Francisco	Lyle, James B.	Washington
Lancaster, John C.	Reno	Lyman, Herbert.	Washington
Landau, Joseph B.	San Francisco	Lysaught, Orville D.	Savannah
Landau, Louis.	New York	McAuliffe, Joseph P.	Corpus Christi
Lane, Arthur A.	Albany	McBirney, Harold R.	Portland, Oreg.
Lane, Joseph J.	Cape Henry	McCallister, Jack C.	Roseburg
Lang, Clarence V.	Las Vegas	McCarthy, John A.	Reno
Lange, Emil T.	Dallas	McCloy, James F.	Philadelphia
Langer, Warren O.	Huron	McClurg, Roy J.	Moorhead
Lanham, Monroe A.	Columbia, Mo.	McCollum, Eugene W.	Juneau
Launing, John M.	Phoenix		
Lapin, Samuel B.	Washington		

* Temporary apptment. † On leave without pay. ‥ Assigned to university.

McCollum, Mrs. Mildred S.	Washington	Matson, Norman A.	La Crosse
McComb, Robert B.	Alexandria	Matthews, Kenneth W.	Wichita
McConnell, William C.	Washington	Mattice, William A.	Washington
McCook, John W.	Washington	Maughan, William E.	Helena
McDaniel, Wayne A.	Des Moines	Means, Lynn L.	Centerville
McDonald, Willard F.	New Orleans	Mears, Atherton H.	Washington
McDonough, Elven S.	Davenport	Medeiros, Stephen S.	Boston
McGinnis, Philip G.	Huron	Meeks, Miss Gladys M.	Washington
McGregor, Clifford J.†	See page 41	Melin, J. Bernhard	Seattle
McGrew, Alvie E.	Galveston	Melloy, Thomas E.	Washington
McGruder, Joseph F.	Cairo	Mendelson, Joseph U.†	See page 41
McGurrin, Martin	Washington	Menzel, Donald H.*	Cambridge
McIntire, Mrs. Mary R.	Washington	Merchant, Gerald C.	Columbia, S. C.
McKenzie, Arnold E.	Columbus	Merrill, Donald C.	Reno
McKinney, Wilbur F.	Spokane	Metcalf, William F., Jr.	Las Vegas
McLane, Richard J.	Spokane	Meyer, Gustavus P.	South Bend
McLaughlin, Earl S.	Cincinnati	Milano, Benjamin S.	Washington
McLeary, Frank E.	Toledo	Miles, James R.	Pittsburgh
McQueen, Henry R.	New York	Miller, David W.	Atlanta
MacDonald, Torrence H.	Missoula	Miller, Emmett H.	Atlanta
MacPherson, Mrs. Pauline O.	Washington	Miller, Eric R.	Madison
		Miller, Miss Frances M.	Washington
		Miller, Glenn M.	Sault Ste. Marie
Mack, James L.	Reno	Miller, Jacob L.	Chicago
Madvig, Eugene L.	Minneapolis	Miller, James E.	Knoxville
Magar, Lloyd H.	Rock Springs	Miller, Paul A.	Washington
Mage, Carroll M.	Seattle	Miller, Ross O.	Williston
Magee, Arthur R.†	See page 41	Miller, Roy F.	Denver
Maggio, Ralph	New York	Miller, Warren M.	Philadelphia
Magill, John W.	Pittsburgh	Milligan, James W.	Lakeland
Magruder, Ernest	Washington	Mills, Richard H.	Louisville
Magrum, Albert F.	Washington	Mills, Ronald M.	Fort Worth
Maguire, Daniel J.	Omaha	Mindling, George W.	Atlanta
Mahaffey, Cecil E.	New Orleans	Mindrup, John W.	Terre Haute
Maher, Fred R.	Pittsburgh	Mireur, Thomas J.	Corpus Christi
Mahler, Mrs. Hazel R.	Washington	Mitchell, Charles L.	Washington
Maiden, Darrell E.	Chicago	Mitchell, George S.	New York
Main, Merl S.	Arlington	Mitchell, James A.	Sandusky
Maldonado, Americo	San Juan	Mitchell, William A.	Savannah
Malecki, Conrad A.†	See page 41	Mize, Ralph C.	Cleveland
Malkin, Louis	Washington	Moery, Otto E.	Terre Haute
Malkin, William	Moorhead	Molen, James P.	Greensboro
Malloy, James P.	Rochester	Molyneux, Harold L.	Del Rio
Maltry, Jacob P.	Wichita	Monson, Milo P.	Williston
Mank, Andrew J.	Washington	Montrop, Ernest G.	Washington
Marcus, Julius	Floyd Bennett	Mook, Conrad P.	Akron
Mark, Ellison S.	Kalispell	Moon, Henry C.	Washington
Marks, Arthur M., Jr.	Chicago	Moore, Bernard H.	Lakeland
Marks, Paul B.	Washington	Moore, Edgar A.	Abilene
Marshall, Mrs. Hazel S.	Washington	Moore, Melvin W.	Meridian
Marth, George R.	Dubuque	Moore, Paul L.	Kylertown
Martin, Delance O.	Key West	Moreland, James R.	Gainesville
Martin, Fred R.	Washington	Moreland, William N.	Washington
Martin, George C.	Little Rock	Morelock, Richard O.	Seattle
Martin, Howard H.	Kansas City	Morgan, J. Harvey	San Antonio
Martin, Robert J.	Washington	Morgan, Michael F.	Washington
Martin, Stephen H.	Washington	Morris, David R.	New York
Marting, Dorsey P.	San Francisco	Morrison, Emile A., Jr.	Macon
Marx, Edward H.	San Antonio	Morten, Carl G.	Duluth
Mason, Alfred S.	Washington	Moser, Frederiek T.	St. Joseph
Mason, Thomas A.	Los Angeles	Moses, Fred I.	Ithaca
Matelson, Joseph	Chicago	Mott, Merton P.	Providence
Math, Frank A.	Havre	Mox, Eldred O.	San Francisco
Mathes, John G.	Washington	Moxom, Walter J.	St. Louis
Mathews, Donald A.	Fresno	Moynihan, Gerald F.	Roswell
Matros, Arnold	Fort Worth	Mozeney, Russell P.	Abilene

* Temporary appointment. † On leave without pay.

Muerdter, Kurt M.....	Harrisburg	Overton, Sidney W.....	Nashville
Muldoon, William A....	Springfield, Ill.	Owen, Elbert A.....	Palestine
Murphy, Alvin D., Jr.....	Peoria	Padala, Edward S.....	Washington
Murphy, Ethan A.*.....	Boston	Paladee, Leon F.....	Little Rock
Murphy, George P.....	Salt Lake City	Pallant, Samuel F.....	Washington
Murphy, John J.....	Norfolk	Palmer, Wayne C.....	Lincoln
Murray, Harold F.....	Memphis	Pardue, Leonard G., Jr.....	Lakeland
Murray, Kenneth C.....	Sandy Hook	Parker, Harold P.....	San Antonio
Murray, Robert S.....	Arlington	Parker, Perry.....	San Francisco
Myers, Arthur J.....	Washington	Parrent, Harry M.*.....	Louisville
Myers, Fred.....	Tacoma	Parry, Benjamin.....	New York
Myers, Harry V.....	Springfield, Ill.	Parry, H. Dean.....	Salt Lake City
Naimark, Sam.....	Portland, Oreg.	Parry, Idwal.....	Syracuse
Namais, Jerome*.....	Boston	Parry, Robert W.....	Ely
Naughton, Percy J.....	New Orleans	Pate, Floyd C.....	Montgomery
Neiburger Morris†.....	See page 41	Patek, Richard S.....	Escanaba
Neick, Ralph W.....	Rock Springs	Patrick, Thomas.....	Washington
Neill, Howard W.....	Albuquerque	Paul, John W.....	Fairbanks
Nelson, Charles L.....	Vicksburg	Paulhus, Joseph L. H.....	Oklahoma City
Nelson, Charles R.....	Medford	Payette, Edward R.....	Sandberg
Nelson, Edward W.....	Seattle	Peace, Henry T.....	Block Island
Nelson, Elmer R.....	Arlington	Peacock, Matthew I.....	Eastport
Nelson, Eskil M.....	Portland, Oreg.	Peake, Frederick D.....	Omaha
Nelson, Merton D.....	Pensacola	Pearson, Floyd H.....	Detroit
Nemecek, Albert D.....	Missoula	Pearson, Wilbur F.....	Davenport
Nesmith, Mark T.....	Boston	Peck, Cecil R.....	Harrisburg
Neumann, Adolph.....	Minneapolis	Peirce, Sheldon J.....	Indianapolis
Neumann, Oscar D.....	Little Rock	Pekeris, Chaim L.....	Boston
Newell, Francis E.....	Abilene	Penfield, Charles F.....	Bellingham
Newton, Charles H.....	El Paso	Penninga, Adrian J.....	Grand Rapids
Newton, Dix E.....	Cincinnati	Pepluskus, John.....	Washington
Nicholas, Earl E.....	Wichita	Percy, William M.....	Amarillo
Nichols, Charles B.....	Atlanta	Perlman, David E.....	Nantucket
Nichols, Esek S.....	Trenton	Perry, Harris M.....	Cape Henry
Nichols, Roger C.....	San Francisco	Peterson, Carl G.....	Minneapolis
Nicholson, David E.....	Lynchburg	Pettit, William A.....	Washington
Nickles, J. Harold.....	Richmond	Pfeifer, William E.....	Washington
Nicoson, Keith S.....	Washington	Pharr, Emory C.....	Washington
Nieves, Carlos.....	San Juan	Phillips, Glen H.....	Pueblo
Noell, Orville A.....	Denver	Phillips, Theodore T.....	Peoria
Norman, Oscar N.....	Tampa	Phillips, Victor V.....	Winslow
Norquest, Clinton E.....	Houston	Philofsky, Harold M.....	Pittsburgh
Norquest, Kenneth S. II.....	See page 40	Phipps, Jack C.....	Abilene
Norton, Grady.....	Jacksonville	Pierce, Charles H.....	Washington
Norwood, Edmund P.....	Phoenix	Pierce, Lawrence C.....	Harrisburg
Noyes, G. Harold.....	Boston	Pierce, Leland T.....	Washington
O'Brien, Brian*.....	Rochester	Piippo, Arthur F.....	Sault Ste. Marie
O'Daniel, George E.....	St. Louis	Pinder, Robert W., Jr.....	Miami
O'Neal, Coleman W.....	Montgomery	Pitzen, Gervin N.....	Keokuk
O'Toole, Morgan J.†.....	See page 41	Planert, Milton F.....	Sault Ste. Marie
Oak, Wilbur W.....	Cleveland	Plaster, Roger G.....	Columbus
Ochs, Mrs. Ruth E.....	Washington	Plummer, Ira C.....	Jacksonville
Ogilvie, T. Levy.....	Columbia, S. C.	Poitrass, Joseph J.....	Buffalo
Okerlund, Walter M.....	Washington	Pollard, William R.....	Washington
Oliver, Lawrence O.....	Kansas City	Pool, Harry A.....	Minneapolis
Oliver, Vincent J.....	Arlington	Posepny, Charlie J.....	South Bend
Olson, Carl A.....	St. Cloud	Post, Donald S.....	Fort Wayne
Olson, Leonard T.....	Chicago	Powell, Philip J.....	Lakeland
Olson, Oscar E.....	Minneapolis	Powell, Raymond H.....	Fort Worth
Oplinger, Frederick K.....	Akron	Powers, Roy J.....	Arlington
Orlich, George N.....	Detroit	Pride, Hilary L., Jr.....	Phoenix
Osborn, Aloysius E.....	Dodge City	Prochnow, Carl T.....	Bear Mountain
Osmun, James W.....	New York	Prucha, Gilbert L.....	Juneau
Overbay, Charles L.....	San Antonio	Pugh, Arthur W.....	Shreveport
		Pugh, Horace L.....	Vicksburg

* Temporary appointment. † On leave without pay. ‥ Assigned to university.

- Pullen, William T., Jr. Washington
Pulsifer, Ralph H. Yuma
- Quattlebaum, B. Harold Jacksonville
Quinn, Eugene H. Los Angeles
Quinn, John D. Williston
- Raab, Emil A. P. Boston
Rabbitt, George G. Washington
Radle, Woodrow J. Dubuque
Rahmlow, Herbert W. Sault Ste. Marie
Rampey, Ernest M. Kansas City
Rampey, Stanley W. Omaha
Ramsden, Blaine N. Salt Lake City
Randall, Dwight L. || See page 40
Rapple, Llewellyn New York
Rasey, Lyle B. Cheyenne
Rasmussen, Delwyn C. Salt Lake City
Rathbone, Harold A. Pomona
Ratner, Benjamin Washington
Rauh, Oscar C. Washington
Rausch, Arthur A. St. Louis
Raven, Charlie J. Corpus Christi
Ray, Clifton L. Springfield, Ill.
Raynes, Harry Augusta
Reber, Carl M. Austin
Redus, Robert L. Miami
Reed, Benjamin E. Washington
Reed, Charles D. Des Moines
Reed, Thomas E. Binghamton
Reed, Thomas R. San Francisco
Reed, Wesley W. Washington
Reed, Wilson, Jr. Newark
Reeves, Charles G. Lakeland
Reiter, Philip Boston
Renneke, Murl V. Moorhead
Kennels, Ivory P. Marshall
Reynolds, Hubert W. Dodge City
Rhoades, Charles R. Cheyenne
Rhodes, Miss Callie E. Washington
Rhoten, Rex R. Pendleton
Ribble, Norbert G. Lander
Rice, Marcus A. Reno
Rice, Warren J. Indianapolis
Richard, Clement A. El Paso
Richards, Edward P. Denver
Richards, George M. Washington
Richards, Harland Nashville
Richardson, Miss Margarette
San Francisco
Richardson, Robert L. Brownsville
Richmond, Albert Buffalo
Rigby, Malcolm North Head
Rigney, Dwight A. Boston
Riley, John A. San Francisco
Rinard, Harlan C. Billings
Rink, James F. Fairbanks
Risinger, Lewis Houston
Rivera, Jose A. Santa Fe
Robb, Andrew D. Topeka
Robbins, Minter W. Washington
Roberts, Halford A. San Francisco
Roberts, Orris W. Bismarek
Robins, Millard V. Omaha
Robinson, Fred S. Green Bay
Robinson, Milton A. Washington
- Robinson, Raymond C. Akron
Rock, Clayton L. Washington
Rockney, Vaughn D. Devils Lake
Rockwood, Henry Pittsburgh
Rodgers, Lyndon T. Kansas City
Roger, Ernest, 8d New Orleans
Rogers, Orlin R. Columbia, Mo.
Rogers, Roy J. Pomona
Rogers, William J. Sacramento
Rohrer, Carl P. Washington
Rohrer, Charles W. Washington
Rollins, Howard A. Springfield, Ill.
Root, Clarence J. Detroit
Roquemore, Walter P. Fort Worth
Rordame, Alfred A. Pocatello
Rose, David Washington
Rose, Martin C. Washington
Rosenberg, Pierce S. Camden
Rosenholtz, Morris Syracuse
Rosenthal, Joseph R. Washington
Ross, Archibald D. Concord
Rossby, Carl-Gustaf A. Boston
Rossman, Leonard J. Grand Rapids
Rothenberg, Leon Cleveland
Rowe, William M. Memphis
Rubin, Morton J. Philadelphia
Rule, Donald D. Spokane
Rule, Thomas W. Washington
Rumbaugh, Walter F. Lincoln
Ruoff, Robert V. Redding
Rusmisl, George P. Galveston
Russell, Leslie E. Jacksonville
Russler, Ben H. New York
Russo, Carl Arlington
Ruth, Hjalmar A. A. Chicago
Rutkas, Anthony C. Chicago
- Sabine, Charles A. Spartanburg
Sabine, William L. Springfield, Ill.
Sable, Edward Boston
Sachse, Glen V. Sault Ste. Marie
Sackett, Ivan L. Springfield, Ill.
Sager, George V. Reno
St. Clair, Gilbert L. Sunbury
Salisbury, Burton Des Moines
Saltsman, Edgar J. Floyd Bennett
Sampson, Harold M. Philadelphia
Samuels, Leroy T. Washington
Sanborn, Richard D. San Francisco
Sanders, John E. Knoxville
Sanders, Ralph New York
Sanders, Robert A. † See page 41
Sandy, Laverne L. Oklahoma City
Sanial, Albert D. La Crosse
Savage, James O. Sacramento
Sawyer, Harold A. Montgomery
Sayles, Mrs. Addie E. Washington
Schaad, Vernon W. Chicago
Schmefer, Franklin J. San Francisco
Schafer, George J. Pittsburgh
Schumach, Seymour Syracuse
Scherr, Miss Mary Washington
Schick, Charles O. Oklahoma City
Schlomer, William B. Cincinnati
Schmalz, William M. Winnemucca
Schmidt, Reinhart C. Chicago

† On leave without pay. || Assigned to university.

Schnurbusch, William J.	Brownsville	Smith, William L.	Washington
Schober, Joseph E.	Chicago	Snider, Ross A.	Cincinnati
Scholl, John C.	Raleigh	Snyder, Henry C.	Denver
Schwaber, Sidney	Albany	Sodergren, Ford C.	Moorhead
Schworm, Stanley S.	Parkersburg	Solheim, Louis J.	Bismarck
Scott, Carl A.	Memphis	Solot, Samuel B.	Washington
Scott, Jere B.	Evansville	Souder, Miss Mary O.	Washington
Seale, Ernest D.	Houston	Southwick, Thomas S.	Washington
Seamon, Lilburn H.	Dayton	Spangler, Hugh D.	Billings
Seabode, Alvin F.	Harrisburg	Spence, Nelson E.	Floyd Bennett
Segal, Robert	Lynchburg	Spencer, James H.	Buffalo
Segal, Stanley M.	Washington	Spencer, John E. W.	Abilene
Sehrt, Edward H. *†	Washington	Spencer, Robin E.	Washington
Selfridge, William F.	Spokane	Spenny, Blake	Chicago
Seppeler, Melvin	Columbus	Spicer, Lucius P.	Montgomery
Sergius, Leo A.	San Francisco	Spindel, Abraham	Scranton
Serlin, Morton J.	Washington	Sprague, Malcolm	San Francisco
Shafer, Miss Alice R.	Washington	Springman, Herbert C.	Cheyenne
Shands, Alexander L.	Albany	Sproge, Victor M.	San Francisco
Sharpe, John M., Jr.	Palestine	Sproles, Edward S.	Tampa
Sharpton, Richard L.	Pittsburgh	Staderman, William G.	Washington
Shaver, Robert M.	El Paso	Stanich, Vincent F.	Sacramento
Shaw, Archie E., Jr.	Charleston	Stanley, Kenneth E.	Los Angeles
Shear, Wilbur K.	New Orleans	Stanley, Mark H.	Los Angeles
Shepherd, C. Eugene	San Diego	Stanski, Miss Mary D.	Washington
Sherman, Louis B.	Baltimore	Stanton, John B.	Washington
Sherouse, Ray T.	Lakeland	Staples, Lester A.	Winnemucca
Sherrill, Ernest	Denver	Stapowich, Edward F.	Buffalo
Sherwin, John F.	Boston	Starke, Parke P., Jr.	Richmond
Shilling, Alphonso W.	North Platte	Starr, Victor P.	Boston
Shipman, Truman G.	Davenport	Steffan, Carl F.	Denver
Shope, William B.	Dallas	Steinberg, John C.	Washington
Showalter, Albert K.	Washington	Steinberg, Morris	Savannah
Shultz, Ralph W.	Moorhead	Stephens, Gilley T.	Knoxville
Shultz, Wendell F.	Phoenix	Sternes, Gilbert L.	Grand Junction
Siedentopf, Will O.	Redding	Stevens, Charles A.	Billings
Sik, Alver E.	Asheville	Stevens, Loyd A.	Washington
Simmons, Vernon L.	Sault Ste. Marie	Stevens, Philip H.	Ithaca
Sims, Wiley K.	Atlanta	Stevens, Welby R.	New Orleans
Sisk, William O.	Brownsville	Stevens, Verne D.	San Francisco
Sitchler, Clynt E.	Albuquerque	Stevlenson, David J.	Washington
Skillman, Clarence E.	Atlanta	Stewart, Harold S., Jr. *	Rochester
Skillman, Philip B.	Jacksonville	Stewart, Homer J. *	Pasadena
Slenes, Henry C.	Helena	Stickley, Allen R.	Washington
Slocum, Giles	Washington	Stoesen, Andrew R. W.	Pensacola
Slomowitz, Max	Knoxville	Stone, Leroy C.	Spartanburg
Small, Mrs. Annie E.	Washington	Stone, Raymond R.	Washington
Small, Robert T.	Medford	Stone, Thaddeus S.	Washington
Smalley, Clarence L.	San Francisco	Stopp, Miss Anna	Washington
Smith, Burton W.	Lincoln	Stork, James E.	Columbus
Smith, Harlan H.	Pocatello	Stout, Franklin K.	Cincinnati
Smith, Harold A.	Fort Worth	Stout, Miss Sallie R.	Washington
Smith, Herschel D.	Wichita	Strachila, Joseph J.	Ely
Smith, Mrs. Isabel	Washington	Strader, Zell E.	Sheridan
Smith, Jacob J.	Indianapolis	Strange, Willoughby T.	Dallas
Smith, James J.	Chicago	Strickland, Willie J.	Richmond
Smith, James W.	Apalachicola	Striker, Edmond F.	South Bend
Smith, Jesse W.	San Francisco	Stripling, Allen A.	Houston
Smith, Julius C.	Seattle	Strobel, John G.	Washington
Smith, Kenneth E.	Portland, Oreg.	Stuart, Robert McM.	Springfield, Ill.
Smith, Mrs. Margaret S.	Cheyenne	Suitor, Chester A.	Memphis
Smith, Mrs. Mary H.	Birmingham	Sullivan, Daniel G.	San Diego
Smith, Raymond O.	Trenton	Summers, Von M.	Washington
Smith, Richard J.	Camden	Sumner, Howard C.	Washington
Smith, Roy A.	Atlanta	Sunseri, Nino	Portland
Smith, Samuel	New York	Sutton, Carl A.	Nashville

*Temporary appointment. †Intermittent service.

Sutton, Everett L.....	Tatoosh Island	Underwood, John B.....	Albany
Sutton, Paul F.....	Asheville	Unger, Ellwood E.....	Evansville
Swaim, Tedrow R.....	Houston	van de Erve, Jerome.....	Iowa City
Swart, Harry L.....	Washington	Vanderpool, Jesse L.....	Rochester
Swartz, John R.....	Erie	Van Geffen, Joseph H.....	New Orleans
Swayne, William W.....	Kansas City	Van Thullenar, Clayton F.....	Salt Lake City
Sweeney, Eugene F.....	Washington	Vardy, Mrs. Sarah M.....	Washington
Sweet, James S.....	Washington	Vaughan, Lloyd D.....	Valentine
Swenson, Bennett.....	Washington	Vederman, Joseph.....	Kylertown
Swenson, Milton O.....	Chicago	Veliquette, Chester M.....	Sacramento
Swift, Harry L.....	Redding	Vernon, Edward M.....	San Francisco
Syer, Charles S.....	Charlotte	Vestal, Claude K.....	Greensboro
Taft, Paul H.....	Albuquerque	Vickers, Miss Rose M.....	Washington
Talbott, William W.....	Tampa	Voll, John E.....	Washington
Tannehill, Ivan R.....	Washington	Von Eschen, George F.....	Boise
Tavris, Hyman.....	Chicago	Voorhees, John F.....	San Francisco
Taylor, Alfred W.....	Tampa	Wagner, Arthur C.....	Indianapolis
Taylor, George D.....	Nashville	Wahlgren, Harry F.....	Oklahoma City
Temperley, John K.....	Trenton	Waite, Loren H.....	Cairo
Tenenbaum, Oscar.....	Chicago	Waite, Robert J.....	New Orleans
Terry, Cecil T.....	Phoenix	Walker, Charles D.....	Jacksonville
Terwilliger, Earl G.....	Ithaca	Walker, Robert C.....	Nashville
Teweles, Sydney, Jr.....	Cleveland	Walstrom, Arthur W.....	Detroit
Thickstun, William R.....	Washington	Walters, Leon K. W.....	Columbus
Thom, Earl C.....	Washington	Walton, Leon C.....	San Diego
Thom, Herbert C. S.....	Washington	Ward, Mrs. Sadie C.....	Washington
Thomas, Arthur N.....	Washington	Warren, Leslie A.....	Kansas City
Thomas, Frederick J.....	Chicago	Warren, Max H.*.....	Miami
Thomas, Harold.....	Washington	Washington, Rudolph.....	Washington
Thomas, Lewis F.....	Atlanta	Watson, Clarence E.....	Medford
Thomas, Phillip D.....	Arlington	Watson, John D.....	Savannah
Thomas, Ralph W.....	Erie	Weaver, Leo W.....	Del Rio
Thompson, Miss Agnes R.....	Washington	Weaver, Robert L.....	Grand Junction
Thompson, Howard J.....	Juneau	Weber, William.....	Washington
Thompson, Jack C.....	Pomona	Weck, Fred H.....	Duluth
Thompson, Wilmer L.....	Fort Worth	Weeks, John R.....	Baltimore
Tiller, George H.....	Chehalis	Weightman, R. Hanson.....	Washington
Tilson, William L.....	Mobile	Weinschenk, John W.....	Atlanta
Timberlake, Richard H.....	Cape Henry	Weirauch, Harry N.....	Seattle
Timberman, Clarence W.....	Davenport	Weiss, Leonard L.....	Rock Springs
Tipton, Raymond P.....	St. Louis	Weiss, Thomas, M.†.....	See page 41
Toland, John P.....	Dallas	Welander, Elmer F.....	Moorhead
Toliver, James T.....	Washington	Weld, Walter M.....	Denver
Topil, Alois G.....	Wolf Creek	Weldon, Maranda R.....	St. Louis
Torbitt, Harry E.....	Seattle	Wells, Edward L.....	Portland, Oreg.
Tornroth, Edward H.....	Eureka	Wells, Roy A.....	Redding
Torrence, Everett W.....	Port Arthur	West, Ralph C.....	Seranton
Tovey, Wyatt T.....	Seattle	West, Mrs. Susie M.....	Washington
Tracy, William H.....	Syracuse	Weston, Walter A.....	Washington
Travis, James.....	Helena	Wettrich, Ernest T.....	Richmond, Va.
Trebee, William J.....	Milwaukee	Wettrich, William K.....	Cleveland
Tresner, Jimmie W.....	Oklahoma City	Wexler, Harry.....	Washington
Trexler, Tony B.....	San Francisco	Wheelock, James L.....	Los Angeles
Trilety, Fred P.....	Omaha	Whipple, J. Howard.....	Pendleton
Trolle-Steensstrup, Frank H.....	Trenton	White, Arkas E.....	Lansing
Trotter, Samuel B.....	Wytheville	White, Bernard N.....	Milwaukee
Truitt, Gerald I.....	Sacramento	White, Clement R.....	Cape Henry
Trumbull, Francis W.....	Duluth	White, Mrs. Jessie M.....	Washington
Tucker, Chester O.....	Keokuk	Whitely, Thomas D.....	Washington
Tugman, Alfred B., Jr.....	Washington	Whitney, Frank B.....	Oklahoma City
Turner, Linwood.....	Washington	Whitney, Mrs. Mabel R.....	Washington
Tyler, James L.....	Vicksburg	Whittlesey, Chauncey A.....	North Platte
Ullrich, Bertram C.....	Keokuk	Whittier, Bernard B.....	Fort Wayne
Uleh, W. Howard.....	Charlotte		

* Temporary appointment. † On leave without pay.

Wickham, George D.....	New Haven	Woffinden, Charles M.†.....	See page 41
Wiedemann, Edwin D.....	Washington	Wolbach, Ralph S.....	Milwaukee
Wiesner, Abe	Alpena	Wolf, Vernon N.....	Washington
Wiggin, Bernard L.....	New York	Wolfe, Alfred Y.....	Jacksonville
Wilcox, Chester E.....	Binghamton	Wolff, Jerome E.....	Spokane
Wilgus, Russell V.....	Joliet	Wolff, Leonard A.....	Seattle
Wilhoit, John F.....	Oklahoma City	Wolford, Arthur F., Jr....	Port Arthur
Willett, Hurd C.*.....	Boston	Wood, Willis A.....	Washington
Williams, Ernest B.....	Washington	Woodward, Wendell H.....	Seattle
Williams, Harry H.....	Albuquerque	Woodworth, Charles A.....	Boston
Williams, James T.....	Modena	Woolard, Edgar W.....	Washington
Williams, John M.....	Detroit	Woollum, Clarence A.....	Nashville
Williams, Nelson R.....	Los Angeles	Woster, Howard C.....	Washington
Williams, Philip, Jr.....	Reno	Wright, Samuel F.....	North Platte
Williamson, Robert M.....	Nashville	Wyland, Miles M.....	Winslow
Williamson, Walter C.....	Wichita	Wyland, Will L.....	Sheridan
Williford, Charles C....	Springfield, Mo.	Wylie, W. Gordon.....	Fresno
Willig, Charles	Buffalo	Yarbrough, Ralph H.....	New Orleans
Wills, H. Merrill.....	Lansing	Youmans, Arthur W.....	Modena
Wilson, Carl L.....	Parkersburg	Young, Floyd D.....	Pomona
Wilson, Clifford G.....	Fort Worth	Younkin, Russell J.....	Topeka
Wilson, Edward E.....	Sandberg	Zellon, Irving I.....	Boston
Wilson, Howard D.....	Washington	Ziegler, William J.....	Minneapolis
Wilson, Thomas C.....	New Orleans	Zoch, Richmond T.....	Washington
Wilton, Raymond L.....	Sioux City	Zubrecky, Stephen J.....	Pittsburgh
Winburn, Henry C.....	Houston	Zwecher, Abraham.....	Hartford
Winters, Francis J.....	San Francisco	Zwirn, Philip.....	New York
Witter, Jack A.....	Pendleton		
Wittmeyer, Merle H.....	Cheyenne		
Wobus, Hermann B.....	Abilene		

*Temporary appointment. †On leave without pay.

WEATHER BUREAU TOPICS AND PERSONNEL

NOVEMBER 1938

Christmas Greetings

The Acting Chief of Bureau and his associates in the Central Office
extend to the station personnel greetings and all good wishes for
A Merry Christmas and A Happy New Year

DESIGNATION OF ACTING CHIEF OF WEATHER BUREAU

By direction of the President, Commander Francis Wilton Reichelderfer, on detail from the Navy Department, is designated as Acting Chief of the Weather Bureau, effective December 15, 1938, vice Dr. W. R. Gregg, deceased.

Dr. Charles C. Clark, Assistant Chief, who on September 16 was designated as Acting Chief of the Bureau, will resume his status as Assistant Chief, and is designated as Acting Chief in the absence of Commander Reichelderfer. In the absence of both Commander Reichelderfer and Dr. Clark, Mr. William Weber is designated and authorized to act as Acting Chief.

(Signed) H. A. WALLACE,
Secretary.

HOLIDAYS

Attention is again called to the article in the January 1938 issue of TOPICS AND PERSONNEL listing the holidays during the current calendar year, and including the mornings of December 24 and December 31 in the schedule of holidays.

FACTS PERTAINING TO RESIGNATIONS AND TERMINATION OF APPOINTMENTS

The following memorandum, dated November 18, 1938, from the Director of Personnel of the Department is published for the information and guidance of Weather Bureau Personnel:

Effective immediately, it is requested that in all cases involving the acceptance of a resignation or the termination of an appointment the Bureau or office concerned make a specific recommendation as to whether the action should be with prejudice or without prejudice.

To avoid the necessity of returning recommendations for further consideration, it is suggested that in all cases warranting separation from the service because of

misconduct, neglect of duty, or fiscal irregularities the Bureau and offices concerned should give consideration to recommending that the separation be with prejudice. These types of cases may include abandonment of position, absence from duty without permission, insubordination, excessive use of intoxicating liquors, submission of false reimbursement, salary, or purchase vouchers, misappropriation of Government property or funds, misuse of Government equipment, etc.

In this connection particular attention is invited to Personnel Circular No. 4, dated November 9, 1934, which requires that all pertinent facts be submitted with each personnel recommendation. This office must insist on full compliance with the provisions of this circular. In some instances, where employees have resigned in lieu of answering charges or having their appointments terminated, they have given such reasons as "to seek other employment," "to accept other employment," etc., and no additional information has been given in recommendations for the acceptance of the resignations. Similarly, instances have been noted where meager or misleading information has been given in recommendation for the termination of appointments of employees who have been involved in misconduct, neglect of duty, or fiscal irregularities. It is the duty of this office to determine whether a separation by resignation or termination of appointment should be with prejudice or without prejudice. Naturally, a just determination can not be made unless all pertinent facts are included in the recommendation.

Attention is invited also to Personnel Circular No. 32, dated October 21, 1936. This circular prohibits the granting of unused annual leave to employees who are to be separated from the service because of delinquencies or misconduct until this office has determined whether or not such leave may be granted. It provides, further, that the Bureau or office concerned shall review the facts and include a definite statement as to whether it is desired that the employee be granted unused leave. Instances have been noted where the provisions of this circular have not been complied with. It is suggested, therefore, that all officials concerned be advised that full compliance will be insisted upon in the future. It has been the general policy of the Department to withhold the granting of unused annual leave in cases involving separation with prejudice for misconduct, neglect of duty, or fiscal irregularities.

Station officials will keep the foregoing in mind in forwarding resignations to the Central Office and furnish all pertinent facts necessary to determine in all cases of resignation whether services should be considered excellent, very good, good, fair, or unsatisfactory, whether the resignation should be accepted with or without prejudice, and whether or not leave should be granted, the latter especially in cases of misconduct, neglect of duty, or fiscal irregularities.

LEAVE OF EMPLOYEES DETAILED TO EDUCATIONAL INSTITUTIONS

The following opinion from the Solicitor of the Department concerning the grant of leave to employees of the Weather Bureau detailed to institutions for training in advanced methods of meteorological science is published for the information of the personnel concerned:

Reference is made to your memorandum of October 26, 1938, raising a question concerning the grant of leave to employees of the Weather Bureau detailed to institutions for training in advanced methods of meteorological science, pursuant to section 803, Public No. 706, 75th Cong.

Your memorandum states that in accordance with the authority cited, five members of the Weather Bureau personnel have been detailed for training at Government

expense, to the Massachusetts Institute of Technology, California Institute of Technology, and New York University for the academic year beginning in September. It is further stated that attendance at classes and at laboratory periods, together with the necessary study and reading, will require at least the same total amount of time weekly that ordinary official duties would require, but that the particular times and the actual number of hours each day will be determined by the class schedules and will necessarily be irregular and variable. It is suggested that the fact that the Weather Bureau is operating under an authority for the staggering of hours in the conduct of its regular service activities would seem to indicate that there is no reason why the regulations may not be applied to employees pursuing courses of study. It is stated, however, that the question is raised as to whether the employees shall be charged for sick and annual leave on the basis of absence from their studies on calendar days or on some other basis.

It is the view of this office that the grant of leave to the small class of employees in question may be made without regard to the regulations governing staggering of hours of regular-service employees. The statute authorizes the "detail" of the employees, which necessarily means that they are detached from their regular duties. Funk and Wagnalls defines the term as "to select for special service". It would seem, therefore, that while on such special service the exigencies of that service alone should govern. However, it is virtually impossible to state any categorical rule covering all of these employees at various institutions and under various systems. It may be stated that it is believed that the employees should be considered in duty status if they attended such classes and other convocations as are required by the course of study, and perform to the satisfaction of those in authority at the institution such private work as is required. This, it is believed, would hold true even though employees were not required to attend regular class sessions or meetings each week day. However, if the employees are incapacitated, due to illness, or are absent from the discharge of their duties of study on annual leave, the charge of leave must be in accordance with the leave regulations. That is, when on annual leave they must be charged each calendar day included therein, except Sundays and holidays, and when on sick leave they must be charged with each calendar day occurring within the period of such leave. (See paragraphs 2511 (14) and 2521 (11) of the Department Regulations.)

EFFECTIVE DATE OF PROMOTION

Due to the large number of transfers, promotions, and appointments now taking place in the Weather Bureau personnel, there will necessarily be some delay in effecting the promotion of employees concerned. Formerly it was the policy to have the promotion made effective within a few days from the date of the arrival at the new station, but this is impossible under present conditions.

Employees who are transferred to new stations should be paid at their old salary rates and from the same appropriation roll until such time as official notification of promotion is received.

TIME OF RELEASE OF WEATHER DATA

For many years, Station Regulations, circulars, instructions, etc., have regulated the time of release of weather data as reported at the a. m. observation. Changes and modifications of these regulations have been made from time to time and the hours of release have varied for different reports, depending upon whether observations were made at first- and

second-order, or special stations, such as those operated in the Bureau's agricultural meteorology work, or the so-called weather-crop stations. These regulations, in general, have been predicated on the importance of weather data to crop growth and their consequent related bearing on the price of agricultural products. However, weather data, in addition to the agricultural relation, serve many important interests where the earliest possible information as to prevailing current conditions is desired.

In recent years the matter of release of data on a fixed schedule has become extremely involved through the introduction of airway reports at frequent intervals, the dual status of many stations, such as airway-cotton and airway-corn-and-wheat region stations, cotton and rainfall (hydrologic), corn and wheat and rainfall, etc., while early radio broadcast is made of SGL D&A reports. Thus, the matter has become too involved to permit continued adherence to definite release hours and all instructions relating to release of weather data, including those contained in paragraphs 237 and 238, the last sentence of 292, and the last paragraph of 247, Station Regulations, as well as circular of May 2, 1932, and Circular Letter of March 22, 1938, are hereby revoked. The Weekly Weather and Crop Bulletins fall into a different category and release of these, both at the Central Office and in the field, will continue in accordance with paragraph 292, Station Regulations.

Hereafter all daily maps and bulletins, of whatever character, containing current weather data, will be issued as early as practicable, and inquiries as to prevailing weather conditions at any place may be answered at any time when reports are available. However, it is not required that station officials change established hours of duty in order to be available for telephone calls, and no special distribution of data before the regular release of printed maps, bulletins, etc., including daily cotton and corn and wheat region reports, should be undertaken. Also, excessive use of the telephone or other personal methods of answering inquiries should not be allowed to interfere with the taking of observations, the expeditious preparation and issue of maps, bulletins, etc., nor with regular forecasting duties or other important work of the station.

Utilization of airports for service contacts and release of data to the public should still be discouraged and limited to the fullest possible extent, as required by circular of February 3 (5), 1934, because the primary function as an airport station is service in aid of aviation and to air transportation interests.

PRESERVATION OF PLATES IN INTERNATIONAL CLOUD ATLAS

Several station officials have made suggestions regarding the preservation of the plates of cloud illustrations in the abridged edition of the "International Atlas of Clouds and of States of the Sky". The plates are on highly calendered stock, which is brittle and likely to be torn in handling.

As noted in the item "Cloud Forms According to International System of Classification" in TOPICS AND PERSONNEL of May 1938, a publication entitled "Codes for Cloud Forms and States of the Sky" is being printed for use of observers. It will be designated "Circular S". This publication contains all essential parts of the text of the abridged atlas and some additional material, including also 70 illustrations of cloud forms.

It is expected that Circular S will be ready for distribution about January 1, 1939, probably before the International Code is put into use. Circular S has been designed for daily use in coding cloud observations, making it unnecessary to use the abridged edition of the International Atlas for that purpose. The latter may, therefore, be reserved for occasional reference and study. If the cloud plates are handled carefully, special provisions may not be required for their preservation.

The following suggestion is made for stations where considerable use of the International Atlas plates is foreseen and some means of preserving them seems necessary:

A cardboard backing may be attached to each of the plates with rubber cement of the quality used for commercial art work, and for mounting photographs or drawings. The backing may be heavy paper or singleply cardboard. The *margins* of the paper, or cardboard, used for backing and also the *margins* of the reverse side of the plate should be covered with a film of rubber cement. The cement should be allowed to become completely dry, after which the surfaces should be pressed together. This results in a smooth job, free from the creases that appear when a paste containing water is used. It is necessary to apply the cement to narrow margins only and not to the entire surfaces of the two sheets.

Station officials are authorized to purchase paper (or cardboard) and rubber cement locally from any available balance in Circular 1, paragraph I. If it is not possible to purchase this material locally, the necessary items may be requisitioned from the Central Office.

STAGGERING OF HOURS OF DUTY

It has been learned that some misunderstanding still exists as to the operation of the "Staggering of Hours of Duty" provision, particularly with reference to the purpose of the regulation, which is to so arrange the schedule of work and hours of duty, *whenever consistent with service needs*, so as not to require service of any employee for a greater period than the minimum number of hours that are required after deductions have been made for any holidays that occur within any semimonthly pay-roll period. It appears to be the practice, particularly at some city offices, when an employee is assigned to Sunday or holiday work, to shorten his hours of duty on some later day in the same semimonthly pay-roll period. This, obviously, is not practicable of accomplishment if the holiday or Sunday on which service is required of the employee is the last day of the pay-roll period. The very nature of the authority to

stagger the hours of duty provides the means for overcoming any such difficulty, since it permits of a reduction in the hours of service required of an employee on some week day, in the same pay-roll period, preceding the holiday or Sunday on which he will be required to perform service—such as the 31st of December.

Supervisory officials are given wide latitude in adjusting schedules of work, *consistent with service requirements*, as shown in the following hypothetical case, covering the last pay-roll period in December 1938:

ADVANCE SCHEDULE OF HOURS OF DUTIES

Name of employee: John Doe.

Date	Staggered hours of duty assigned	Date	Staggered hours of duty assigned
Dec. 16.....	7	Dec. 25.....	0
Dec. 17.....	0	Dec. 26.....	4
Dec. 18.....	7	Dec. 27.....	8
Dec. 19.....	7	Dec. 28.....	7
Dec. 20.....	0	Dec. 29.....	0
Dec. 21.....	8	Dec. 30.....	4
Dec. 22.....	7	Dec. 31.....	7
Dec. 23.....	8		
Dec. 24.....	0	Total	74

In the foregoing example the exigencies of service permitted of assigning the employee to a schedule of duty that required him to render only the minimum hours of service. Obviously, this is not always practicable of accomplishment and it is often necessary to require more than a minimum number of hours of service in a semimonthly pay-roll period. In the latter case it is not practicable to compensate him in any other pay-roll period for the hours served in excess of the minimum requirement.

The minimum number of hours used in the example are arrived at by computing the normal number of hours that would be contained in the pay-roll period, were there no holidays, in accordance with the third paragraph of the circular of November 15, 1938 ("Amending Authority for Staggering of Hours of Duty"), i. e., 7 hours on the 16th, 4 hours on the 17th, 7 hours each 19th to 23d, 4 hours on the 24th, 7 hours each 26th to 30th, and 4 hours on the 31st, making a total of 89 normal hours. From this number deduct 4 hours each for the Executive Order holidays on the 24th and 31st, and 7 hours for the National holiday on the 26th, making a total deduction of 15 hours. Deducting this 15 hours from the normal number of 89 hours leaves a total *minimum* of 74 hours of service to be required of each employee.

REFERENCE MARKS IN CLIMATOLOGICAL DATA

Memorandum from Division of Climate and Crop Weather, dated November 21, 1938, was intended to apply only to the precipitation page in Climatological Data. Also, as numerous objections have been received to the use of the dagger (†) as a reference for post office addresses, this reference mark will not be used for that purpose.

The use of single symbols and superior reference numbers was intended to eliminate the use of double and sometimes triple references, as some sections are crowded for space in the station column.

The memorandum was not intended to amend instructions in TOPICS AND PERSONNEL of September 1938, page 102, except in those instances when the tipping bucket of the recording gage is not in use during an entire month.

It was not intended to limit the reference marks to those shown in the memorandum, as sections have their own problems of references and may show them by additional symbols. It would be desirable to have uniform reference marks within the individual publications, as well as throughout the service, but this is a matter for decision by the section director. As the post office addresses are usually referred to only in the general summary table, there should be no conflict between this table and the precipitation table, except where the explanation of the reference marks is combined in a single notation. A supply of superior figures may be obtained on Stores Requisition.

REDUCTION OF BAROMETRIC PRESSURE TO SEA LEVEL AT LOW STATIONS

At all Weather Bureau stations where the station elevation is 50 feet or less, barometric pressures will be reduced to sea level by adding the proper (constant) reduction factor to the station pressure, both being expressed to thousandths of an inch, then obtaining the sea-level pressure by finally dropping the thousandth digit of the sum, according to the Weather Bureau rule for disposing of decimals. At places where the station elevation exceeds 50 feet, station pressure will be expressed to hundredths of an inch before making the reduction to sea level by use of a reduction table which involves a station-pressure argument and a temperature argument (mean of current and 12-hour-preceding temperature). Paragraph 43 of "Instructions for Preparing Meteorological Forms" is hereby amended accordingly.

The Central Office should be advised of all cases where the station elevation is 50 feet or less and the reduction factor in use is not expressed to thousandths of an inch. The station elevation should be submitted in such instances. The Central Office will then furnish reduction factors expressed to thousandths of an inch.

The foregoing instructions are effective as soon as practicable.

PREPARATION OF ISENTROPIC CHARTS

In constructing isentropic charts, Mr. A. M. Marks, Jr., of the Chicago Airport Station, has suggested the use of a scale for interpolating relative humidity between adjacent significant levels where the change is linear. The scale is made of transparent celluloid and is approximately 2 inches by 5 inches in size. It contains some 10 to 15 diverging lines, proportionally spaced. At their diverging ends the fifth and tenth lines are numbered for convenience in counting.

The scale is placed over the Upper-Air Map B or C so that the lower-most and the uppermost lines coincide with the relative humidity points between which an interpolation is desired. The relative humidity at the point of intersection of the temperature-pressure and potential-temperature curves is thus determined.

NEW DEFINITIONS AND ABBREVIATIONS OF CLOUD FORMS

Station officials are reminded that the new international definitions of cloud forms and the abbreviations adopted at Warsaw in 1935 are to be used in making entries on all record forms, beginning January 1, 1939. The definitions are contained in "Cloud Forms", W. B. No. 956 (Revised 1938). The new abbreviations are given in the item "Cloud Forms According to International System of Classification" in TOPICS AND PERSONNEL for May 1938.

The International Code, in figures, will not be in effect on January 1, 1939, as previously contemplated. The date for beginning the use of the figure code, including cloud code numbers, will be announced later.

NEW DESIGNATION FOR RADIOMETEOROGRAPH OBSERVATIONS

In order to standardize the term used in what has been referred to as radiometeorograph observations, The Weather Bureau has adopted the word "radiosonde". The latter term is used in both French and German literature and in view of the close international relationship in this work, it is desirable to use a common term.

It is, accordingly, requested that the word "radiosonde" be used to distinguish the instrument which is attached to the balloon and which transmits by radio signals to the ground station the meteorological elements measured. From this the terms logically follow "radiosonde observation", "radiosonde report", "radiosonde station", "radiosonde record", "radiosonde recorder", etc.

Since the Federal Communications Commission considers every radio transmitter a station, the term "radio aerological sounding station" will be used to designate the "radiosonde" in connection with frequency allocations. In accordance therewith the term "radio aerological sounding station" is hereby defined as "a special radio transmitting station sent aloft for the purpose of obtaining information regarding atmospheric conditions".

ADDITIONAL DATA TRANSMITTED IN RADIOSONDE REPORTS

Radiosonde stations have been instructed to include in their daily raob reports pressures corresponding to altitudes of upper limits of clouds, lower and upper limits of turbulent layers, precipitation, haze, etc., as provided in Weather Bureau circular dated June 1, 1938, "Instructions for Daily Transmission of Airplane Weather (apob) and Radiometeorograph (raob) Observations". This information will be obtained from

pilots flying in the vicinity of the radiosonde observations. Whenever the data in question become available, the code form for transmission of apobs will be used for raobs.

It should be noted, however, that the absence of these data in radiosonde observation reports will not necessarily indicate their absence in the atmosphere, since it may not always be possible to obtain the information from airplane pilots.

Paragraph 3 of the circular referred to above is modified accordingly.

LAMPS FOR WIND-DIRECTION AND VELOCITY INDICATORS

In order to provide a choice of lamps for use in transformer-operated, wind-direction and velocity indicators, there are now stocked for issue to stations so equipped both 6-8 volt and 12-16 volt, G-6 bulb, double contact, candelabra, bayonet-base lamps. Frequent burning out of 6-8 volt lamps, usually associated with excessive brightness, is good reason for choosing those of the higher voltage.

DECALCOMANIAS FOR MARKING NONEXPENDABLE (Z) PROPERTY

A circular letter from the office of the Chief of Bureau in regard to installing a new system of property-record accountability for nonexpendable property was issued May 21, 1938. The work will not be completed this calendar year, as was expected, and station officials are hereby notified to include in their property return (Form 2034), as heretofore, the listing of all library books and buildings for which they are accountable for the calendar year 1938, to be submitted not later than January 20, 1939.

DESCRIPTION OF NONEXPENDABLE (Z) PROPERTY

Hereafter all communications sent to the Central Office relative to nonexpendable (Z) property must be fully described and identified, together with value, as indicated in the reports requested by the Central Office on nonexpendable property, and rendered by the field as of June 21, 1938, for marking with decalcomania property numbers. This action is desired on requests for authority to drop, transfer, sell, or dispose of property in any manner. In fact, a communication of any kind relative to an item of an accountable (Z) nature should be identified as set up in the list, or, if received since June 21, 1938, as described in the invoice.

SUPPLIES FOR NEW AIRPORT STATIONS

For the information of the officials in charge of the airport stations now being established, all necessary forms, instructions, regulations, etc., are being furnished as rapidly as possible. Amendments to Departmental Regulations, Nos. 1 to 74, exclusive of No. 72, being forwarded with the regulations, should be properly inserted, noted in the table of contents, and indexed according to instructions accompanying each amendment.

DISCONTINUANCE OF SGL D&A REPORTS

SGL D&A reports from Dubois, Idaho, were discontinued on December 12, 1938, owing to the closing of the second-order station at that place. Observations from the Civil Aeronautics Communications station at Dubois are transmitted in the code-sequence-collection system.

MAILING OF AEROLOGICAL FORMS TO THE CENTRAL OFFICE

When mailing aerological forms to the Central Office, stations are hereby requested to indicate in the lower left-hand corner of the envelope the appropriate notation as indicated below, so that these envelopes can be more expeditiously routed to the respective sections: "Pilot Balloon Forms," "Apob Forms," "Raob Forms," "Sounding-Balloon Observation Forms," and "Airway Forms."

CHALK-PLATE BOX INSPECTION AND REPAIR

Under a supplemental contract with the Hoke Engraving Plate Company, effective August 22, 1938, payment of 75 cents for inspection and repair of each chalk-plate box received and reshipped to stations is authorized. Such expense may, therefore, be vouchered and certified by station officials upon receipt of a filled box and certified bill from the contractor.

HYDROMETEOR DEFINITIONS

A mimeographed copy of "Hydrometeor Definitions" was mailed to each station early in December. Any station not receiving a copy of these should immediately request same from the Division of Climate and Crop Weather.

CIRCULARS

Circulars entitled "Amending Authority for Staggering of Hours of Duty", dated November 15, 1938, "Time of Release of Weather Data", dated December 1, 1938, and "Annual and Sick Leave for Certain Classes of Weather Bureau Airway Observers", dated December 1, 1938, were mailed to all regular and airport stations on November 19, December 1, and December 8, 1938, respectively. Any station not receiving a copy of each should notify the Central Office.

FIRST-ORDER STATIONS OPENED AT AIRPORTS

First-order Weather Bureau Stations were opened at Sault Ste. Marie, Mich., effective September 1, 1938, and at Pocatello, Idaho, November 1, 1938.

Twenty-four-hour airway service, including four pilot-balloon observations a day, will be rendered at Pocatello. The Sault Ste. Marie station will take and transmit SGL D&A, intermediate 6- and 3-hourly, four pilot-balloon and one radiometeorograph observation daily. Airway observations for scheduled airplane flights will be furnished as needed.

DEPARTMENT REGULATIONS

Copies of amendment to Department Regulations, No. 74, paragraphs 1726, 1727, and 1728, were mailed to all regular and airport stations on November 19, 1938. Any station not receiving a copy should notify the Central Office.

RETIREMENT

Mr. George E. Grimes, official in charge of the Nantucket station, was retired November 30, 1938, after more than 51 years of service. Mr. Grimes was born in Prince Georges County, Md., on November 20, 1868. He entered the service on January 22, 1887, at Washington, D. C., and subsequently served at Buffalo and Nantucket. Prior to July 1, 1891, at which time the duties of the Signal Corps were transferred to the Weather Bureau, Mr. Grimes served in that organization.

DEATH

Mr. William H. Fallon, who was retired on May 18, 1930, died at the Santa Rosa Hospital in San Antonio, Tex., on November 27, 1938. Interment will be in Yankton, S. Dak., at which place Mr. Fallon was official in charge from 1912 to 1930. An outline of his service and a notice of his retirement will be found in the May 1930 issue of TOPICS AND PERSONNEL.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of November 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Adler, David.....	Hartford, Conn.....	Appointed junior observer at \$1,440, by transfer from the Government Printing Office.
Ahearn, Frank H.....	Philadelphia, Pa.....	Promoted to associate meteorologist at \$3,200 from assistant meteorologist at \$2,000.
Baldwin, Mart G.....	Charleston, S. C.....	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Ball, Nicholas, Jr.....	Providence, R. I.....	Junior observer at \$1,440, resigned; record, good.
Bodemer, Ottmar A.....	Milwaukee, Wis.....	Appointed junior observer at \$1,440.
Bonnett, Walter E.....	Fresno, Calif.....	Promoted to associate meteorologist at \$3,200 from assistant meteorologist at \$3,000.
Caldwell, William D.....	Washington, D. C.....	Promoted to messenger, Cu-3, at \$1,200 from assistant messenger, Cu-2, at \$1,080.
Capper, Robert M.....	San Francisco, Calif....	Appointed junior observer at \$1,440.
Carnes, Millard W.....	Billings, Mont.....	Appointed junior observer at \$1,440.
Caudle, Frederick L.....	Milwaukee, Wis.....	Promoted to junior meteorologist at \$2,000 from scientific aid, SP-5, at \$1,800, with transfer from the departmental to the field service.
Clapp, Philip F.....	Washington, D. C.....	Junior meteorologist, P-1, promoted to \$2,100 from \$2,000.
Cupples, William A.....	Reno, Nev.....	Promoted to observer at \$1,800 from assistant observer at \$1,800.
Dean, John J.....	Washington, D. C.....	Promoted to assistant clerk, CAF-3, at \$1,620 from junior clerk, CAF-2, at \$1,440.
Dunham, Hoye S.....	Tampa, Fla.....	Observer, salary readjusted from \$1,800 ¹ to \$1,800 (cash salary), effective December 1, 1938.
Edelman, Bernard.....	Washington, D. C.....	Promoted to junior clerk, CAF-2, at \$1,440 from messenger, Cu-3, at \$1,200.
Elford, Carroll A.....	Pocatello, Idaho.....	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Fleharty, Russell R.....	Detroit, Mich..... (Airport.)	Appointed junior observer at \$1,440.
Goebel, Gerald E.....	Washington, D. C.....	Assistant messenger, Cu-2, at \$1,080, resigned; record, very good.
Grimes, George E.....	Nantucket, Mass.....	Junior meteorologist at \$2,600, retired.

¹ Includes allowance of \$100 for quarters, fuel, and light.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Guthrie, Leon J.	Dayton, Ohio.	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,100.
Hall, Clifford D.	Muskegon, Mich. (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Hayden, Phelan G.	Havre, Mont.	Appointed junior observer at \$1,440.
Hilworth, Jerry T.	Washington, D. C.	Promoted to assistant scientific aid, SP-4, at \$1,620 from junior observer at \$1,440, with transfer from the field to the departmental service.
Jacobson, Arthur L.	Moorhead, Minn.	Appointed junior observer at \$1,440.
Keller, Andrew P.	Buffalo, N. Y.	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,300.
Kline, Alfred B.	New York, N. Y. (Newark, N. J.)	Observer, promoted to \$1,860 from \$1,800.
Kolker, Benjamin.	Buffalo, N. Y.	Appointed minor observer at \$1,020.
Lennahan, Charles M. ...	Washington, D. C.	Promoted to assistant meteorologist, P-2, at \$2,000 from junior meteorologist, P-1, at \$2,000.
Malkin, Louis.	Washington, D. C.	Promoted to scientific aid, SP-5, at \$1,800 from assistant scientific aid, SP-4, at \$1,620.
Matelson, Joseph.	Chicago, Ill.	Junior observer at \$1,440, suspended without pay from December 1, 1938, to termination of December 15, 1938, for disciplinary reasons.
Melloy, Thomas E.	Washington, D. C.	Promoted to assistant clerk, CAF-3, at \$1,620 from junior clerk, CAF-2, at \$1,500.
Milano, Benjamin S.	Washington, D. C.	Promoted to junior clerk, CAF-2, at \$1,440 from messenger, Cu-3, at \$1,200.
Milligan, James W.	Lakeland, Fla.	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Mitchell, Mrs. Margaret S.	Cheyenne, Wyo.	Minor observer at \$1,200, name changed on rolls from Mrs. Margaret Shea Smith.
Moesser, Russell J.	Madison, Wis.	Appointed junior observer at \$1,440.
Nichols, Esek S.	Trenton, N. J.	Associate meteorologist at \$3,300, granted leave without pay from November 1, 1938, to termination of January 31, 1939.
Norris, Edward L.	Wichita, Kans.	Appointed junior observer at \$1,440.
Payette, Edward R.	Sandberg, Calif.	Promoted to assistant observer at \$1,620 ^a from junior observer at \$1,440 ^a .

^aIncludes allowance of \$120 for quarters, fuel, and light.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Salisbury, Burton.....	Des Moines, Iowa.....	Promoted to junior meteorologist at \$2,100 from senior observer at \$2,000.
Schroeter, Walter A.....	Milwaukee, Wis. (Airport.)	Appointed junior observer at \$1,440.
Schultz, Wendell F.....	Phoenix, Ariz.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Shaw, Archie E., Jr.....	Charleston, S. C..... (Airport.)	Under observer, promoted to \$1,440 from \$1,260.
Smith, Burton W.....	Lincoln, Nebr.....	Promoted to printer at \$1,800 from minor observer at \$1,200.
Solheim, Louis J.....	Bismarck, N. Dak..... (Airport.)	Assistant observer, promoted to \$1,680 from \$1,620.
Stevlingson, David J....	Salt Lake City, Utah... (Airport.)	Promoted to assistant meteorologist at \$2,600 from junior meteorologist, P-2, at \$2,200, with transfer from the departmental to the field service.
Syverud, Leo E.....	Rapid City, S. Dak.....	Appointed junior observer at \$1,440.
Turner, William C.....	Washington, D. C.....	Appointed under mechanic (fireman), Cu-4, at \$1,320, temporarily.
Underwood, John B.....	Nantucket, Mass.....	Junior meteorologist, salary readjusted from \$2,400 (cash salary) to \$2,400 ¹ .
Walstrom, Arthur W....	Detroit, Mich.....	Assistant meteorologist, promoted to \$2,800 from \$2,600.
Warren, Miss Hannah E.	Washington, D. C.....	Appointed junior clerk-stenographer, CAF-2, at \$1,440 by transfer from the Veterans' Administration.
Walters, Leon K. W.....	Columbus, Ohio.....	Assistant meteorologist, promoted to \$2,800 from \$2,600.
Whittenberg, Charles B..	Ithaca, N. Y.	Appointed observer at \$1,800 by reinstatement in the Government service.
Wilson, Edward E.....	Sandberg, Calif.....	Promoted to senior observer at \$2,000 ² from observer at \$1,800 ² .
Zellon, Irving I.....	Mount Washington, N.H. (Boston, Mass.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.

¹Includes allowance of \$120 for quarters, fuel, and light.²Includes allowance of \$240 for quarters, fuel, and light.*Changes in assignments*

Name	Relieved from—	Assigned to—
Ahrens, Robert J.....	Madison, Wis.....	Milwaukee, Wis. (Airport), assistant.
Allison, Loren J. N.....	Valentine, Nebr.....	Wichita, Kans. (Airport), assistant.
Bowie, Glenn L.....	Washington, D. C.....	Anchorage, Alaska, assistant.

Changes in assignments—Continued

Name	Relieved from—	Assigned to—
Calvert, Jack H.....	Reno, Nev. (Airport.)	Pendleton, Oreg., assistant.
Caudle, Frederick L.....	Washington, D. C.	Milwaukee, Wis. (Airport), in charge.
Cheney, Werlen F.....	Seattle, Wash. (Airport.)	Reno, Nev. (Airport), in charge.
Eberhardt, John C.....	Cheyenne, Wyo. (Airport.)	Denver, Colo. (Airport), as- sistant.
Fitzgibbons, Warren J..	Billings, Mont.	Cheyenne, Wyo. (Airport), as- sistant.
Friedman, Herman	Wichita, Kans. (Airport.)	Valentine, Nebr., assistant.
Gibson, Thomas L.....	Charlotte, N. C. (Airport.)	Birmingham, Ala. (Airport), in charge.
Henry, Berl L.....	Knoxville, Tenn.	Knoxville, Tenn. (Airport), in charge.
Hilworth, Jerry T.....	Port Arthur, Tex.	Washington, D. C., assistant.
Huber, Henry S.....	Cheyenne, Wyo. (Airport.)	Grand Junction, Colo., assist- ant.
Hudnall, Jack L.....	Shreveport, La.	Jackson, Miss. (Airport), as- sistant.
Hustead, Aubrey D.....	Mount Washington, N. H.	Pittsburgh, Pa., assistant.
Marting, Dorsey P.....	Oakland, Calif.	Denver, Colo. (Airport), in charge.
Matthews, Kenneth W..	Wichita, Kans. (Airport.)	Dodge City, Kans., assistant.
Newton, Dix E.....	Cincinnati, Ohio. (Airport.)	Louisville, Ky. (Airport), as- sistant.
Stevens, Philip H.....	Ithaca, N. Y.	Albany, N. Y., assistant.
Stovlingson, David J....	Washington, D. C.	Salt Lake City, Utah (Airport), assistant.
Stork, James E.....	Muskegon, Mich.	Columbus, Ohio (Airport), as- sistant.
Topil, Alois G.....	Wolf Creek, Oreg.	Seattle, Wash. (Airport), as- sistant.
Underwood, John B....	Albany, N. Y.	Nantucket, Mass., in charge.
Weaver, Robert L.....	Grand Junction, Colo. ...	Salt Lake City, Utah (Airport), assistant.
Welander, Elmer F.....	Moorhead, Minn.	Cheyenne, Wyo. (Airport), as- sistant.
Wobus, Hermann B.....	Abilene, Tex. (Airport.)	Salt Lake City, Utah (Airport), assistant.
Wyland, Miles M.....	Winslow, Ariz.	Burbank, Calif., assistant.
Zellon, Irving I.....	Pittsburgh, Pa.	Mount Washington, N. H., in charge.

WEATHER BUREAU TOPICS AND PERSONNEL

DECEMBER 1938

UNIVERSITY TRAINING IN METEOROLOGY DURING 1939-40

In accordance with the provision of section 803 of the Civil Aeronautics Act of 1938 (TOPICS AND PERSONNEL, June 1938), under which five Weather Bureau employees were detailed to educational institutions for advanced training in meteorology during the academic year 1938-39 (TOPICS AND PERSONNEL, August 1938), it is expected that similar assignments will be made during 1939-40 to the number that available funds will permit.

All employees who wish to be considered for such detail should make application therefor on or before March 1, 1939, and supply the following information:

- (1) Name.
- (2) Age.
- (3) Marital status.
- (4) Dependents.
- (5) Education—high school, college undergraduate and postgraduate, giving name of institution, dates of attendance, major subject, and degree received.
- (6) Experience—Weather Bureau, giving name of station, name of official in charge, dates of assignment, position held; and other experience.
- (7) List of publications, giving titles and references.

The application must be accompanied by an official transcript of all college and university work for which the applicant has received credit. The transcripts will be returned to applicants after they are no longer needed by the Bureau.

INTERVIEW OF CIVIL SERVICE ELIGIBLES

It develops that in a number of cases eligibles certified for probational appointment as junior observer have moved from the address furnished by the Commission. This is due primarily to the fact that the examination was taken in April 1937 and the eligibles failed to notify the Commission of changes in address.

When it is ascertained that an eligible has moved to a location closer to some other Weather Bureau station than the one receiving the letter of inquiry, the correspondence should be forwarded by indorsement to the second station with request that the interview be made and report furnished as directed. The Central Office should be advised of the action.

CODING AND RECORDING SEA-LEVEL PRESSURE AT LOW STATIONS

Where barometric pressures are reduced to sea level from station elevations of 50 feet, or less, in accordance with instructions in TOPICS AND PERSONNEL of November 1938, page 129 (item headed "Reduction of Baro-

metric Pressure to Sea Level at Low Stations'''), the thousandths digit of the reduced pressure will be taken into consideration when enciphering the data in the word code, which permits only transmission of even figures. That is, the code letters for reduced pressure will represent the pressure expressed to even hundredths of an inch which is nearest to the reduced pressure expressed to thousandths of an inch, following the Weather Bureau rule for disposing of odd figures in the case where the reduced pressure has an odd number of hundredths and zero thousandths. For example, in the word code, reduced pressure expressed to thousandths of an inch from 29.951 to 29.970, inclusive, will be enciphered as 29.96, and from 29.971 to 29.990, inclusive, as 29.98.

The reduced pressures will be recorded to the nearest whole hundredths of an inch on Forms 1001 and 1001A, in accordance with instructions given in the item of TOPICS AND PERSONNEL referred to above.

When the figure code is in effect for transmitting synoptic observational data, reduced pressures will be coded in millibars, with the hundreds and thousands digits omitted. For example, 995.6 mb. will be transmitted as 956, and 1016.3 mb. as 163. When converting reduced pressure from inches to millibars, use will be made of a conversion table provided for the purpose. When referring to this table the reduced pressure, as recorded in Forms 1001 or 1001A, expressed to the nearest whole hundredths of an inch, will be used as the argument. The last paragraph of this item applies to all stations, regardless of station elevation.

OBSERVATIONS AT AIRPORTS FOR TELGRAPHIC AND RECORD PURPOSES

In accordance with circular of February 3 (5), 1934, the airports have been designated as the official stations for telegraphic and record purposes at the following places on the dates indicated: Detroit, January 1934; Kansas City, January 1934; Atlanta, December 1934; Omaha, June 1935; Pittsburgh, July 1935; Salt Lake City, July 1935; Cheyenne, September 1935; Boston, January 1936; Minneapolis, May 1938; Albany, June 1938; Pocatello, September 1938, and Harrisburg, January 1939.

All publications, including daily weather maps and bulletins furnished newspapers, Climatological Data, and Form 1030, in which reports for these stations are published, should indicate that the observations are taken at the airport. For weather maps and bulletins, including those for newspapers, the asterisk reference mark (*), with a footnote reference reading "Observations taken at airport", invariably should be used. In other publications it is customary to follow the name of the station with (Airport).

At stations publishing reports received by teletype instead of through the SGL D&A system, care should be taken to indicate, in the prescribed manner, observations taken at airport stations instead of city offices. For their guidance in making a distinction between the point of origin of reports distributed by teletype, station officials are advised that all

CS (code sequence) reports from points where first-order Weather Bureau stations are located are taken at airports, with the exception of Madison, Baker, Trenton, and Roseburg, and that all MR (map reports) from first-order stations are taken at city offices.

No reference marks are necessary in cases where the only station in a city is located at the airport.

FIELD DISBURSEMENTS OF SALARIES

A circular letter entitled "Instructions in Connection With Disbursement of Salaries Through Regional Disbursing Offices", containing revised detailed instructions as to preparation of pay rolls and related forms, has been mailed to all stations at which officials have been authorized to approve pay rolls for payment by regional disbursing officers. It is requested that the instructions therein be studied and carefully followed in order to obviate the necessity for correspondence required in the correction of errors of commission or omission.

Particular attention is invited to new procedure set forth in paragraph 8 on page 6 of the instructions.

VOUCHERS COVERING SERVICES OF EMERGENCY ASSISTANTS

Paragraph 97 of Station Regulations is hereby amended by adding thereto a paragraph as follows:

A notation will be made on each such voucher as follows:

The amount herein certified will not result in a total payment to this employee in excess of \$540 for the 12 months preceding the last date of service.

JUNIOR METEOROLOGIST EXAMINATION

The U. S. Civil Service Commission has announced an open competitive examination for junior meteorologist to be held after January 12, 1939. A notice of this examination was mailed to each regular and airport station on December 17, 1938, and the Civil Service Commission sent announcements generally to educational institutions and technical societies and associations.

CHANGES IN SGL D&A REPORTS

Observations from Alexandria, La., (telegraphic designation, "Alexandria"), will be distributed in the SGL D&A system beginning January 16, 1939, in lieu of reports from Leesville, La., which were discontinued at the termination of December 29, 1938.

SURPLUS PROPERTY

The following property is surplus at the Weather Bureau Office, Boise, Idaho, and available for transfer elsewhere in the service:

One drill, breast; length, 18 inches; apparently in good condition; no repairs necessary; purchase price unknown; estimated present value, \$7.50.

Any station desiring the above property should request formal authority to have it transferred.

PURCHASE OF CEMENT

The attention of all station officials is called to the article entitled "Purchase of Cement" on page 28 of the March 1938 issue of TOPICS AND PERSONNEL.

A great many of the reports sent to the Central Office have not been complete. It is necessary that all the information called for in the March 1938 article be given, as an incomplete report causes needless correspondence. It is requested that station officials take special care in filling out these reports.

In this connection it is learned that three copies of these reports are no longer required. A single copy will now suffice.

CIRCULAR AND CIRCULAR LETTER

Under date of January 5, 1939, a circular letter, dated December 20, 1938, headed "Stereotyping Outfits Used in Connection With Chalkplate Work", and a circular dated December 23, 1938, entitled "Expendable Property Invoices", were mailed to all stations.

Any station not receiving a copy of this circular letter and circular should notify the Central Office.

ERROR IN CLOUD CIRCULAR

In the circular, "Cloud Reports in the International Code", dated October 15, 1938, on page 7, fifth column, the word "nimbus" should be "nimbostratus".

FEDERAL BUSINESS ASSOCIATIONS

Weather Bureau officials have been elected or appointed to office in local Federal Business Associations as follows:

Mr. Joseph R. Lloyd, Chicago, Ill., has been elected president of the U. S. Department of Agriculture Club of Chicago.

DEPARTMENT REGULATIONS

Copies of amendments to Department Regulations, Nos. 72, 75, and 76, paragraphs 3216 and 3217, 3165 and 3166, and 3218, respectively, were mailed to all regular and airport stations during December 1938. Any station not receiving a copy should notify the Central Office.

RETIREMENT

Mrs. Addie E. Sayles, charwoman at the Central Office, was retired on December 31, 1938, on account of physical disability. She was born in Fairfax, Va., on February 10, 1881. Mrs. Sayles entered the Weather Bureau service on October 18, 1921, and prior to that time served for short periods in the National Museum, Bureau of Engraving and Printing, and the Federal Trade Commission.

CHANGES IN PERSONNEL

The following, relative to changes in the personnel of the Weather Bureau during the month of December 1938, is published for the *exclusive* information of employees of the Bureau:

Appointments, promotions, reductions, etc.

Name	Station	Remarks
Ahrens, Robert J.....	Milwaukee, Wis..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Aldredge, Robert C.....	Charleston, S. C..... (Airport.)	Promoted to senior observer at \$2,000 from assistant observer at \$1,800.
Allen, George C.....	Knoxville, Tenn..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Allen, Graham L.....	Fort Worth, Tex..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Allison, Loren J. N.....	Wichita, Kans.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Anderson, Clarence A....	San Antonio, Tex..... (Airport.)	Junior meteorologist, promoted to \$2,100 from \$2,000.
Arnold, James T.....	Dodge City, Kans.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Asp, Oliver.....	Helena, Mont.....	Appointed junior observer at \$1,440.
Baker, Clyde G.....	Brownsville, Tex.....	Appointed junior observer at \$1,440.
Bacon, Guardello R.....	Modena, Utah.....	Appointed junior observer at \$1,440.
Beall, Gerald T.....	Des Moines, Iowa.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Bennett, Escal S.....	Indianapolis, Ind..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Bice, Ernest G.....	Jacksonville, Fla.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Borders, Robert C.....	Billings, Mont.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Bosworth, Leslie W.....	Wichita, Kans..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Bowie, Glenn L.....	Anchorage, Alaska.....	Promoted to junior meteorologist at \$2,500 from scientific aid, SP-5, at \$1,800 with transfer from the departmental to the field service.
Brachfeld, Alex.....	Washington, D. C.....	Appointed assistant messenger, Cu-2, at \$1,080.
Bradley, Charles F., Jr..	Tampa, Fla.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Brennan, John J.....	Washington, D. C.....	Principal clerk, CAF-6, promoted to \$2,900 from \$2,800.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Brickles, David E.....	Washington, D. C.....	Promoted to junior clerk, CAF-2, at \$1,440 from assistant messenger, Cu-2, at \$1,080.
Byrd, Carl R.....	Mobile, Ala..... (Airport.)	Under observer, promoted to \$1,440 from \$1,320.
Carter, Richard E.....	Winslow, Ariz.....	Promoted to observer at \$1,800 from assistant observer at \$1,020.
Chapman, Horace W....	Yakima, Wash.....	Appointed junior observer at \$1,440.
Chapman, Percy H....	Toledo, Ohio..... (Airport.)	Junior meteorologist, promoted to \$2,100 from \$2,000.
Chappell, William B....	Miami, Fla..... (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Cheney, Werlen F.....	Reno, Nev..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Clark, William T.....	Providence, R. I.....	Appointed junior observer at \$1,440.
Clayton, Cecil D.....	Winnemucca, Nev.....	Appointed junior observer at \$1,440.
Coleman, Don E.....	Toledo, Ohio..... (Airport.)	Promoted to senior observer at \$2,000 from observer at \$1,800.
Court, Arnold.....	Albuquerque, N. Mex..	Appointed junior observer at \$1,440.
Cox, James F., Jr.....	Charleston, S. C.....	Promoted to under observer at \$1,200 from minor observer at \$1,020.
Cravens, Stuart E.....	St. Joseph, Mo..... (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Crubaugh, Joseph J....	Des Moines, Iowa..... (Airport.)	Appointed junior observer at \$1,440.
Davis, Joseph M.....	Des Moines, Iowa..... (Airport.)	Promoted to junior observer at \$1,440 from minor observer at \$1,020.
Decker, Sylvester E....	Des Moines, Iowa.....	Assistant meteorologist, promoted to \$2,800 from \$2,600.
Denmark, William L....	Springfield, Mo.....	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Dunham, Hoya S.....	Tampa, Fla.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Eberhardt, John C.....	Denver, Colo..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Edrington, Oren E.....	Milwaukee, Wis..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,020.
Evans, Harold J.....	Winslow, Ariz.....	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Farlowe, Junius K.....	Birmingham, Ala..... (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Fenner, Howard W.....	Pueblo, Colo..... (Airport.)	Junior meteorologist, promoted to \$2,100 from \$2,000.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Fink, Kenneth C.....	San Francisco, Calif.... (Oakland.)	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,000.
Fitzgibbons, Warren J...	Cheyenne, Wyo..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Fox, Elmer J.....	Moorhead, Minn.....	Junior meteorologist, promoted to \$2,100 from \$2,000.
Fusch, Helmut A.....	San Juan, P. R.....	Assistant observer, salary readjusted from \$1,620 (cash salary) to \$1,620. ¹
Fusch, Helmut A.....	San Juan, P. R.....	Promoted to observer at \$1,800 ¹ from assistant observer at \$1,620 ¹ .
Gallier, Frank W.....	Toledo, Ohio (Airport.)	Promoted to observer at \$1,800 from junior observer at \$1,500.
Gee, Ivin L.....	Missoula, Mont.....	Appointed junior observer at \$1,440.
Gibson, Thomas L.....	Birmingham, Ala..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Goodell, Clark F.*.....	Denver, Colo.....	Appointed minor observer at \$1,020, pending certification of eligibles.
Grady, Dominic.....	Atlantic City, N. J.....	Promoted to under observer at \$1,260 from minor observer at \$1,080.
Griffith, Wesley W.....	Little Rock, Ark..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Grimminger, George.....	Washington, D. C.....	Promoted to assistant meteorologist, P-2, at \$2,600 from junior meteorologist at \$2,100 with transfer from the field to the departmental service.
Grover, George M.....	Missoula, Mont.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Haber, David.....	Knoxville, Tenn.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Hall, Walter R.....	Greenville, S. C.....	Promoted to junior observer at \$1,440 from under observer at \$1,260.
Hamann, Roland R.....	Rapid City, S. Dak..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Harby, Harold D.....	Sacramento, Calif.....	Appointed junior observer at \$1,440.
Hargis, Jewel K.....	Shreveport, La.....	Under observer, promoted to \$1,440 from \$1,380.
Harrell, Wayne.....	Salt Lake City, Utah... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Hemphill, Phillips P....	San Antonio, Tex..... (Airport.)	Assistant meteorologist, promoted to \$2,700 from \$2,600.

* Indicates temporary appointment.

¹ Includes allowance of \$100 for quarters, fuel, and light.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Henry, Berl L.....	Knoxville, Tenn..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Hester, Donald M.....	Washington, D. C.....	Promoted to senior scientific aid, SP-6, at \$2,000 from scientific aid, SP-5, at \$1,860 and name changed on rolls from Donald Milton Hester.
Hightman, Harry V.....	Winslow, Ariz.....	Appointed junior observer at \$1,440.
Hilkey, Trent V.....	Elmira, N. Y.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Hoffman, Harry M.....	Bismarck, N. Dak..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Hogan, Joseph T.....	New Orleans, La.....	Appointed minor observer at \$1,020.
Holladay, Cleveland.....	Louisville, Ky.....	Appointed junior observer at \$1,440.
Horst, Henry J.....	Sault Ste. Marie, Mich..	Appointed junior observer at \$1,440.
Hudnall, Jack L.....	Jackson, Miss.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Hughes, Clyde L.....	Key West, Fla.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Hull, Henry C. L.....	Jacksonville, Fla.....	Appointed junior observer at \$1,440.
Jacobson, Joseph S.....	Sheridan, Wyo.....	Appointed junior observer at \$1,440.
Jones, Louis M.....	Rapid City, S. Dak.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Jones, Paul R.....	Washington, D. C.....	Promoted to assistant meteorologist, P-2, at \$2,000 from senior scientific aid, SP-6, at \$2,000.
Kernan, Thomas A.....	Albany, N. Y.....	Promoted to under observer at \$1,200 from minor observer at \$1,080.
Kerr, Harvey C.....	Brownsville, Tex..... (Airport.)	Junior observer, promoted to \$1,500 from \$1,440.
Klobofski, John V.*.....	Havre, Mont.....	Appointed under observer at \$1,200, pending certification of eligibles.
Lady, Ivan R.....	Indianapolis, Ind.....	Appointed minor observer at \$1,020.
Lager, Ervin J.....	San Francisco, Calif.... (Oakland)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Lamoreux, Wallace W...	Billings, Mont.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Lanning, John M.....	Phoenix, Ariz.....	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Law, Lewis B.....	Elkins, W. Va.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.

*Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Leech, Loren P.....	Columbus, Ohio..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Long, Thomas L.....	Louisville, Ky..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Loveridge, Elmer F.....	Honolulu, Hawaii.....	Assistant meteorologist at \$2,800, granted leave without pay from January 1, 1939, to termination of December 31, 1939.
Lowe, Miss Nellie M.*...	Springfield, Ill.....	Minor observer at \$1,020, temporary appointment extended, not to exceed 90 days.
McClurg, Roy J.....	Tulsa, Okla.....	Junior meteorologist, promoted to \$2,300 from \$2,200.
McDaniel, Wayne A.....	Des Moines, Iowa..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
McGrew, Alvie E.....	Galveston, Tex.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
McLaughlin, Glen H....	Abilene, Tex..... (Airport.)	Appointed junior observer at \$1,440.
McQueen, Henry R.....	New York, N. Y..... (Newark, N. J.)	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,000.
Mack, James L.....	Washington, D. C.....	Junior meteorologist, promoted to \$2,100 from \$2,000 with transfer from the field to the departmental service.
Magee, Arthur R.....	Topeka, Kans.....	Assistant observer at \$1,620, leave without pay extended from December 9, 1938, to termination of March 8, 1939.
Magill, John W.....	Pittsburgh, Pa.....	Assistant observer at \$1,620, granted leave without pay from December 2, 1938, to termination of March 1, 1939.
Malecki, Conrad A.....	Sault Ste. Marie, Mich..	Junior observer at \$1,440, leave without pay extended from December 27, 1938, to termination of March 26, 1939.
Marting, Dorsey P.....	Denver, Colo..... (Airport.)	Promoted to assistant meteorologist at \$2,600 from junior meteorologist at \$2,100.
Matthews, Kenneth W...	Dodge City, Kans.....	Assistant observer, promoted to \$1,740 from \$1,620.
Moeller, John R.....	Evansville, Ind.....	Appointed junior observer at \$1,440.
Moore, Edgar A.....	Abilene, Tex..... (Airport.)	Promoted to senior observer at \$2,000 from observer at \$1,800.
Moore, John G.....	Pueblo, Colo..... (Airport.)	Appointed junior observer at \$1,440.
Morgan, Jacob W.....	Chicago, Ill..... (Airport.)	Appointed junior observer at \$1,440.

* Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Myers, Harry V.....	Springfield, Ill..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Newton, Dix E.....	Louisville, Ky..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Norman, Oscar N.....	Tampa, Fla..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Norwood, Edmund P....	Phoenix, Ariz.....	Under observer, promoted to \$1,440 from \$1,260.
Oplinger, Frederick K...	Cleveland, Ohio..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Parker, Harold P.....	Honolulu, Hawaii.....	Assistant meteorologist, promoted to \$2,800 from \$2,700.
Passeno, Frank V.*.....	Washington, D. C.....	Appointed under mechanic, Cu-4, at \$1,320, temporarily.
Plaster, Roger G.....	Tampa, Fla..... (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Pope, Lyman A.*.....	Columbia, S. C.....	Appointed minor observer at \$1,020, pending certification of eligibles.
Powell, Raymond H....	Fort Worth, Tex..... (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Pride, Hilary L., Jr....	Phoenix, Ariz..... (Airport.)	Promoted to under observer at \$1,260 from minor observer at \$1,020.
Ramsden, Blaine N.....	Salt Lake City, Utah... (Airport.)	Observer, promoted to \$1,860 from \$1,800.
Rinard, Harlan C.....	Billings, Mont.....	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Root, Halbert E.....	Sandberg, Calif.....	Appointed junior observer at \$1,440.
Roquemore, Walter P...	Fort Worth, Tex..... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Rusmisl, George P.....	Galveston, Tex.....	Promoted to associate meteorologist at \$3,200 from assistant meteorologist at \$2,600.
Sanborn, Richard D....	San Francisco, Calif.... (Oakland.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Sayles, Mrs. Addie E....	Washington, D. C.....	Junior laborer (charwoman), Cu-2, at 50 cents an hour; retired.
Schaefer, Franklin J....	San Francisco, Calif.... (Oakland.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Schmalz, William M....	Winnemucca, Nev.....	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Showalter, Albert K....	Washington, D. C.....	Promoted to associate meteorologist, P-3, at \$3,200 from assistant meteorologist, P-2, at \$2,600.

*Indicates temporary appointment.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Simpson, Ralph R.	St. Louis, Mo. (Airport.)	Appointed junior observer at \$1,440.
Smith, Murray W.	Jackson, Miss.	Appointed junior observer at \$1,440.
Skillman, Philip B.	Charleston, S. C. (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Snider, Ross A.	Cincinnati, Ohio. (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,500.
Snyder, Henry C.	Abilene, Tex. (Airport.)	Observer, promoted to \$1,800 from \$1,800.
Solot, Kohlman.	Boston, Mass. (Airport.)	Appointed junior observer at \$1,440.
Sproles, Edward S.	Tampa, Fla. (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Stephens, Gilley T.	Knoxville, Tenn. (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Stevens, Charles A.	Billings, Mont.	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Stevens, Philip H.	Albany, N. Y.	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Stowell, David J.	Spokane, Wash. (Airport.)	Appointed junior observer at \$1,440.
Tanner, George.	Cheyenne, Wyo. (Airport.)	Appointed junior observer at \$1,440.
Taubele, Henry C.	Medford, Oreg.	Appointed junior observer at \$1,440.
Taylor, Alfred W.	Tampa, Fla. (Airport.)	Junior meteorologist, promoted to \$2,300 from \$2,000.
Terry, Cecil T.	Phoenix, Ariz. (Airport.)	Promoted to junior meteorologist at \$2,000 from observer at \$1,800.
Thomas, Lewis F.	Atlanta, Ga. (Airport.)	Promoted to assistant meteorologist at \$2,000 from junior meteorologist at \$2,000.
Topil, Alois G.	Seattle, Wash. (Airport.)	Promoted to observer at \$1,800 from assistant observer at \$1,620.
Underwood, John B.	Nantucket, Mass.	Promoted to assistant meteorologist at \$2,600 ^a from junior meteorologist at \$2,400 ^a .
Unger, Wayne E.	Tampa, Fla. (Airport.)	Appointed junior observer at \$1,440.
Wagner, Arthur C.	Indianapolis, Ind. (Airport.)	Junior meteorologist, promoted to \$2,100 from \$2,000.
Walz, Orry C.	Springfield, Ill.	Appointed under observer at \$1,260.
Weaver, Robert L.	Salt Lake City, Utah... (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.
Welander, Elmer F.	Cheyenne, Wyo. (Airport.)	Promoted to assistant observer at \$1,620 from junior observer at \$1,440.

^aIncludes allowance of \$240 for quarters, fuel, and light.

Appointments, promotions, reductions, etc.—Continued

Name	Station	Remarks
Whaley, Erford H.*.....	Binghamton, N. Y.....	Appointed minor observer at \$1,020, pending certification of eligibles.
Whittington, Patrick H.*	Shreveport, La.....	Appointed minor observer at \$1,020, pending certification of eligibles.
Wilcox, Chester E.....	Binghamton, N. Y.....	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Williams, Ernest B.....	Washington, D. C.....	Promoted to scientific aid, SP-5, at \$1,800 from assistant observer at \$1,020 with transfer from the field to the departmental service.
Williams, John M.....	Detroit, Mich..... (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Wilson, Clifford G.....	Little Rock, Ark..... (Airport.)	Junior meteorologist, promoted to \$2,100 from \$2,000.
Wilson, Howard D.....	Washington, D. C.....	Promoted to clerk, CAF-4, at \$1,800 from assistant clerk, CAF-3, at \$1,740.
Wobus, Hermann B.....	Salt Lake City, Utah... (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Wolbach, Ralph S.....	Milwaukee, Wis.....	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.
Wyland, Miles M.....	Los Angeles, Calif..... (Burbank.)	Promoted to senior observer at \$2,000 from observer at \$1,800.
Young, Byron A.....	Kansas City, Mo.....	Appointed junior observer at \$1,440.
Zwecher, Abraham.....	Hartford, Conn..... (Airport.)	Promoted to assistant observer at \$1,020 from junior observer at \$1,440.

* Indicates temporary appointment.

Changes in assignments

Name	Relieved from—	Assigned to—
Allen, George C.....	Greensboro, N. C.....	Knoxville, Tenn. (Airport), assistant.
Anderson, Clarence A...	Salt Lake City, Utah... (Airport.)	San Antonio, Tex. (Airport), assistant.
Armstrong, Lorenz C...	Helena, Mont.....	Butte, Mont. (Airport), assistant.
Barlow, Milton F.....	Boston, Mass..... (Airport.)	Hartford, Conn. (Airport), in charge.
Bertoni, Louis.....	Springfield, Ill..... (Airport.)	Kylertown, Pa., assistant.
Brown, Charles N.....	Salt Lake City, Utah... (Airport.)	San Antonio, Tex. (Airport), assistant.
Cagle, Cecil.....	Montgomery, Ala..... (Airport.)	Mobile, Ala. (Airport), in charge.
Carlin, Albert V.....	Boston, Mass..... (Airport.)	Hartford, Conn. (Airport), assistant.

Changes in assignments—Continued

Name	Relieved from—	Assigned to—
Carpenter, Carl A.	Salt Lake City, Utah... (Airport.)	Butte, Mont., in charge.
Cassidy, James J.	New York, N. Y. (Newark, N. J.)	Albany, N. Y. (Airport), in charge.
Chapman, Percy H.	New York, N. Y. (Newark, N. J.)	Toledo, Ohio (Airport), in charge.
Coleman, Don E.	Detroit, Mich.	Toledo, Ohio (Airport), assistant.
Cravens, Stuart E.	Kansas City, Mo.	St. Joseph, Mo. (Airport), in charge.
Denmark, William L.	St. Louis, Mo. (Airport.)	Springfield, Mo., assistant.
Dunham, Hoye S.	San Juan, P. R.	Tampa, Fla., assistant.
Edrington, Oren E.	Indianapolis, Ind. (Airport.)	Milwaukee, Wis. (Airport), assistant.
Farlowe, Junius K.	Charlotte, N. C. (Airport.)	Birmingham, Ala. (Airport), assistant.
Fenner, Howard W.	Denver, Colo. (Airport.)	Pueblo, Colo. (Airport), in charge.
Fink, Kenneth C.	Los Angeles, Calif. (Burbank.)	San Francisco, Calif. (Oakland), assistant.
Fox, Elmer J.	Billings, Mont.	Moorhead, Minn., in charge.
Fusch, Helmut A.	Port Arthur, Tex.	San Juan, P. R., assistant.
Gardner, Reid B.	Modena, Utah	Las Vegas, Nev., assistant.
Gephardt, Robert S.	Denver, Colo.	Pueblo, Colo. (Airport), assistant.
Gibson, Dwight F.	Oklahoma City, Okla... (Airport.)	Tulsa, Okla. (Airport), assistant.
Grafton, Gilbert F.	Yakima, Wash.	Butte, Mont., assistant.
Griffith, Wesley W.	Brownsville, Tex.	Little Rock, Ark. (Airport), assistant.
Grimminger, George.	Boston, Mass.	Washington, D. C., assistant.
Hemphill, Phillips P.	Atlanta, Ga. (Airport.)	San Antonio, Tex. (Airport), in charge.
Hilkey, Trent V.	Miami, Fla. (Airport.)	Elmira, N. Y. (Airport), assistant.
Holmes, Vern S.	Chicago, Ill. (Airport.)	Atlanta, Ga. (Airport), assistant.
Jones, Louis M.	Pendleton, Oreg.	Rapid City, S. D. (Airport), in charge.
Jurwitz, Louis R.	Seattle, Wash. (Airport.)	Portland, Oreg. (Airport), in charge.
Kerr, Samuel K.	St. Joseph, Mo. (Airport.)	Pueblo, Colo. (Airport), assistant.
Lamoreux, Wallace W. ...	Havre, Mont.	Billings, Mont., assistant.
Lane, Arthur A.	Albany, N. Y. (Airport.)	New York, N. Y. (Newark, N. J.), assistant.
Lichtblau, Stephen.	San Francisco, Calif. ... (Oakland.)	Los Angeles, Calif. (Burbank), assistant.
Long, Thomas L.	Columbia, S. C.	Louisville, Ky. (Airport), assistant.
Lothman, Arvy A.	Pasadena, Calif.	San Francisco, Calif., assistant.
McClurg, Roy J.	Moorhead, Minn.	Tulsa, Okla. (Airport), in charge.
Mack, James L.	Reno, Nev. (Airport.)	Washington, D. C., assistant.
Maguire, Daniel J.	Omaha, Nebr. (Airport.)	Bismarck, N. Dak. (Airport), in charge.
Moore, Paul L.	Kylertown, Pa.	Greensboro, N. C., assistant.
Moser, Frederick T.	St. Joseph, Mo.	Detroit, Mich., assistant.

Changes in assignments—Continued

Name	Relieved from—	Assigned to—
Mozeney, Russell P.....	Abilene, Tex..... (Airport.)	Jackson, Miss., assistant.
Muerdter, Kurt M.....	Sacramento, Calif.....	Harrisburg, Pa., assistant.
Oplinger, Frederick.....	Akron, Ohio.....	Cleveland, Ohio (Airport), as- sistant.
Parker, Harold P.....	San Antonio, Tex.....	Honolulu, Hawaii, assistant.
Plaster, Roger G.....	Columbus, Ohio..... (Airport.)	Tampa, Fla. (Airport), assist- ant.
Skillman, Philip B.....	Jacksonville, Fla.....	Charleston, S. C. (Airport), assistant.
Smith, Roy A.....	Atlanta, Ga..... (Airport.)	Charleston, S. C. (Airport), in charge.
Snyder, Henry C.....	Denver, Colo..... (Airport.)	Abilene, Tex. (Airport), as- sistant.
Steves, Verne D.....	San Francisco, Calif.... (Oakland.)	Atlanta, Ga. (Airport), assist- ant.
Strader, Zell E.....	Sheridan, Wyo.....	Mobile, Ala. (Airport), assist- ant.
Williams, Ernest B.....	Detroit, Mich..... (Airport.)	Washington, D. C., assistant.
Wilson, Clifford G.....	Fort Worth, Tex..... (Airport.)	Little Rock, Ark. (Airport), in charge.

F. W. Richards