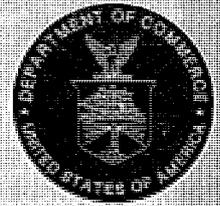


The National Cooperative Observer



Winter 1998

Eastern Region

Southern Region

Central Region



Western Region

Alaska Region

Pacific Region

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

THE NATIONAL COOPERATIVE OBSERVER

*National Climatic Data Center
Publication Staff: Steve DelGreco and The Orkand Staff*

NATIONAL COOPERATIVE OBSERVER is prepared, funded, and distributed by the National Oceanic and Atmospheric Administration (NOAA) and is provided free of charge to Cooperative Observers.

Photographs are taken by NWS employees unless otherwise noted. Narratives are prepared and submitted by the NWS. Narratives are edited only for grammatical errors, space limitations, and consistency.

The Cooperative Observers Climatological Network was created in 1890. The program is currently administered by the National Weather Service, a line office of the National Oceanic and Atmospheric Administration, an agency within the Department of Commerce. One of the responsibilities of the National Weather Service is to take meteorological observations which are used to record the climate conditions of the United States. The National Weather Service relies heavily on a vast network of cooperative weather observer volunteers to achieve this objective.

The National Weather Service determines where observations are needed and furnishes standard meteorological instruments to individuals who volunteer their time to take and record daily observations of the weather. Currently, there are about 8000 published volunteer observing stations located in the United States and its territories. In addition to the thousands of cooperative observations stations operated by individuals, many are maintained by institutions and commercial firms (universities, utility companies, etc.). All cooperative observers submit a monthly report summarizing daily weather observations. These contributions to the climate record of the United States are invaluable.

The publication staff of **NATIONAL COOPERATIVE OBSERVER** welcomes your help in acquiring stories concerning experiences by cooperative observers and significant weather events. We request our observers to mail such items to:

Steve DelGreco
National Climatic Data Center
151 Patton Avenue, Rm 120
Asheville, NC 28801-5001

Any such items received by the editor will be for use in the **NATIONAL COOPERATIVE OBSERVER** only. Any other use will be with permission of the owner of said items. Materials submitted will be returned if requested.

NOTE: No submissions were receive from the Alaska Region, Eastern Region, and Pacific Region

CONTENTS

	Page
Central Region	3
Southern Region	7
Western Region	8

COVER PHOTO: Mrs. Elizabeth King, a live long resident of Dover, TN, has been a volunteer cooperative weather observer for nearly thirty-three years. Her first observations were taken three years before she became a teacher at Dover Elementary School in 1963. She retired from the school system in 1984 and plans to keep recording the weather " for as long as I am needed".

CENTRAL REGION

JOHN CAMPANIUS HOLM



JOHN R. TUCKER (left), observer, **OSWEGO, KS**, was presented the prestigious **JOHN CAMPANIUS HOLM AWARD** by Leon Wasinger (right), Cooperative Program Manager. Also in attendance were Richard Elder, National Weather Service, and the Oswego Independent Observer Newspaper. Mr. Tucker has provided river readings and precipitation reports for the past twenty-five years in the Oswego area.

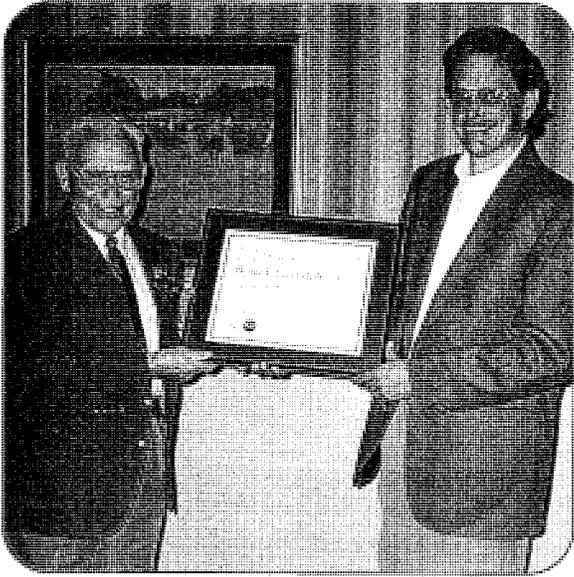
JOHN CAMPANIUS HOLM AWARD



NED STUMP (right), observer, **PRAIRIE HEIGHTS, IN**, was presented the **JOHN CAMPANIUS HOLM AWARD** by Roger Kenyon (left), Hydrometeorological Technician of WSFO Indianapolis at a Lions Club Meeting in Stroh, Indiana. As the vocational agriculture teacher at Prairie Heights High School, Stump incorporates weather observation data collection into the curriculum. Students are taught how to take the weather observations, send them to the NWS via ROSA and also how to use the data in relation to agriculture. Among many other interests, Mr. Stump has made it possible for hundreds of young people to have opportunity to view weather data in a "hands on" atmosphere. Mr. Stump oversees all observations and he and Mrs. Stump record them when school is not in session.

CENTRAL REGION

HELMUT E. LANDSBERG AWARD



L. WAYNE WARNER (left), observer, **HARRISBURG 10 NW, NE**, received the **HELMUT E. LANDSBERG AWARD** from Patrick McDonald (right), Hydrometeorological Technician, from Cheyenne, WY. Taking the picture is Pat's wife, Rachel. Mr. Warner has received the John Campanius Holm Award, the Thomas Jefferson Award and the Edward H. Stoll Award.



OSCAR COOK, observer, **WAKEENEY 9 N, KS**, was presented a **45-YEAR LENGTH-OF-SERVICE AWARD**. Pictured left to right: George Lucas, Data Acquisition Program Manager GLD; Oscar Cook and Mrs. Cook.



HIND LEASK, observer, **BAYFIELD 6 N, WI**, received a **40-YEAR LENGTH-OF-SERVICE AWARD**. Pictured left to right: Michael Stewart, Meteorologist-In-Charge; Hind Leask; Mildred Leask, wife; and Jim Christenson, Cooperative Program Supervisor.



GLEN L. RUTHERFORD, observer, **WICHITA, KS**, was presented a **30-YEAR LENGTH-OF-SERVICE AWARD** by Leon F. Wasinger. Pictured from left to right: Mr. and Mrs. Rutherford and Leon Wasinger.



GLENN M. SCHMITT (right), observer, **WICHITA, KS**, was presented with a **25-YEAR LENGTH-OF-SERVICE AWARD** by Michael J. Rosner (left), Data Acquisition Program Manager. Not pictured was John Ogren and Eric Schminke, NWS.

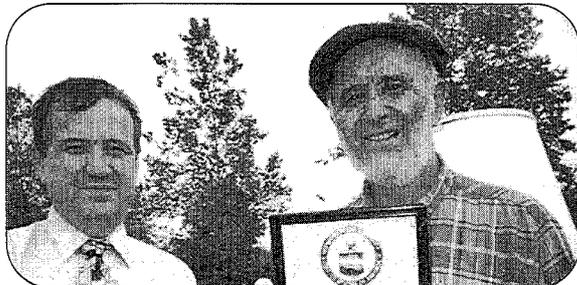
CENTRAL REGION



FRANKIE STOKER, observer, **HASWELL, CO**, was presented a **25-YEAR LENGTH-OF-SERVICE AWARD**.



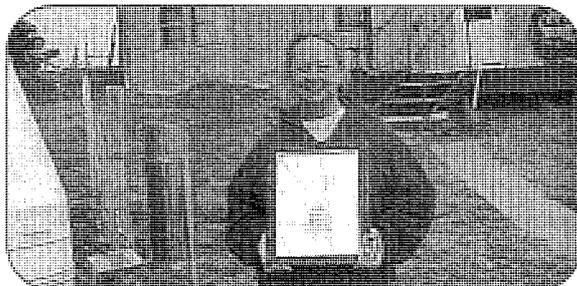
THE CITY OF CROTHERSVILLE, CROTHERSVILLE, IN, was presented a **25-YEAR INSTITUTIONAL AWARD** by Roger Kenyon (left). The award was presented to Don Roth (center) of the city utilities and Bill Nagle (right) of the town board. The observer, Ivan Donnell, was ill and was not able to attend the presentation. Ivan does an excellent job in monitoring the F&P gage at Crothersville.



LORES STEURY (right), observer, **GOSHEN COLLEGE, IN**, was honored with a **20-YEAR LENGTH-OF-SERVICE AWARD** by Ed Terrell (left), Hydro-meteorological Technician. On October 12, 1998, Mr. Steury retired from his job as gardener at the college and unfortunately, from the cooperative program as well.



The National Weather Service in Johnston, IA, congratulates **RICHARD BIDDLE**, observer, **DALLAS, IA**, for his **20-YEAR LENGTH-OF-SERVICE AWARD**. Richard has been a member of the weather service family since September 1978.



SUZANNE PLATT, observer, **KIM 15 NNE, CO**, was presented a **20-YEAR LENGTH-OF-SERVICE AWARD**.

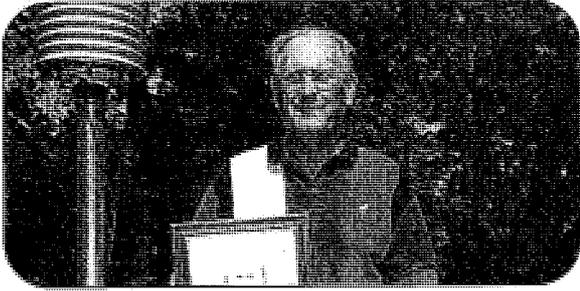


CORDELL CONNELLY (right), observer, **LEWISVILLE, IN**, was presented a **20-YEAR LENGTH-OF-SERVICE AWARD** by Roger Kenyon (left).

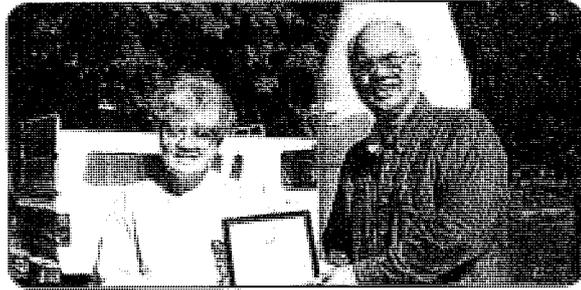


MR. SHERIDAN MAGNANI (far right), observer, **BENKEI MAN 2 SSW, NE**, was presented a **15-YEAR LENGTH-OF-SERVICE AWARD** by Mr. George Lucas (far left), Data Acquisition Program Manager from NWSO GLD.

CENTRAL REGION



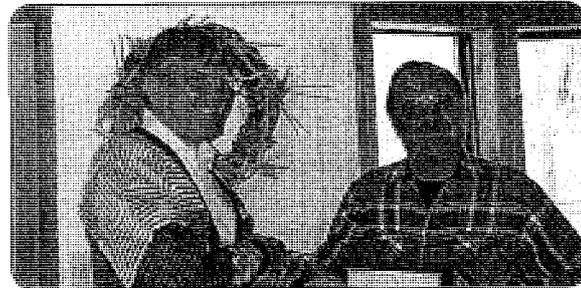
LOUIS HAYWARD, observer, **EUREKA, KS**, was presented a **15-YEAR LENGTH-OF-SERVICE AWARD** by Leon F. Wasinger.



PAM DETERING(left), observer, **FREELANDVILLE, IN**, was presented a **15-YEAR LENGTH-OF-SERVICE AWARD** by Roger Kenyon (right). Pam and husband Don "Cooperate" on the daily duties.



The National Weather Service in Johnston has honored **KURT AND BONNIE RANGLES AND DAUGHTERS, AMANDA AND ABBY**, observers, **MOUNT AYR, IA**, with a **15-YEAR LENGTH-OF-SERVICE AWARD**.



RICHARD A. CRABB (right), observer, **RIDGEWAY, CO**, was presented a **15-YEAR LENGTH-OF-SERVICE AWARD** by Robert Jacoben (left), Meteorologist In Charge, of the Grand Junction National Weather Service Office.



SHELLEY EDWARDS (left), observer, **SPENCER, IN**, was presented a **15-YEAR LENGTH-OF-SERVICE AWARD** by Roger Kenyon (right).



STEVE COTNER, observer, **WINAMAC 2 SSE, IN**, was presented a **15-YEAR LENGTH-OF-SERVICE AWARD** by Roger Kenyon. Steve does an excellent job recording and disseminating agricultural and hydrological weather data.



A **10-YEAR LENGTH-OF-SERVICE AWARD** was presented to **MR. MOBY WILE**, observer, **BUCKHORN MOUNTAIN, CO**.



The National Weather Service honored **JACK DAVENPORT**, observer, **GOSHEN, IN**, with a **10-YEAR LENGTH-OF-SERVICE AWARD**.



The National Weather Service honored **DAN CASAD**, observer, **LAKEVILLE, IN**, with a **10-YEAR LENGTH-OF-SERVICE AWARD**.

SOUTHERN REGION



MR. AND MRS. E. E. SMITH, observers, **STATESVILLE, TN**, was presented a **20-YEAR LENGTH-OF-SERVICE AWARD**.



RICHARD KRAESKE (left), observer, **CLARKSVILLE, TN**, was presented with a **10-YEAR LENGTH-OF-SERVICE AWARD** by Fred Hellwagner (right), Hydrometeorological Technician.



TOMMY WILLIAMS (left), observer, **CLARKSVILLE, TN**, was presented with a **10-YEAR LENGTH-OF-SERVICE AWARD** by Fred Hellwagner (right).



AUDREY BECK, observer, **KINGSTON SPRINGS, TN**, was presented a **10-YEAR LENGTH-OF-SERVICE AWARD**.

WESTERN REGION

75-YEAR INSTITUTIONAL AWARD



A **75-YEAR INSTITUTIONAL AWARD** was presented to the **U. S. FOREST SERVICE** for its weather station, **DISSTON 1 NE-LAYING CREEK, OR**. The presentation was made at the forest service office in Cottage Grove, OR, by NWSFO Portland representatives Clint Jenson, Data Acquisition Program Manager, and Dean Sondag, Cooperative Program Manager. Accepting the award from left to right: Darrell Burlie and Wayne Kleckner, acting District Ranger.

50-YEAR INSTITUTIONAL AWARD



A **50-YEAR INSTITUTIONAL AWARD** was presented to the **OREGON CITY FIRE DEPARTMENT, OREGON CITY, OR**. The fire department operates a combination climatological-hydrological weather station. The award was presented by NWSFO Portland representatives Dan Keeton, Clint Jenson, and Dean Sondag. Pictured accepting the award from left to right: Oregon City Mayor Dan Fowler; firefighters-Dan Holm, Gary Lamb; Shift Chief Mark McGladery; Deputy Chief Clark Poulton; and Chief Jim Davis.

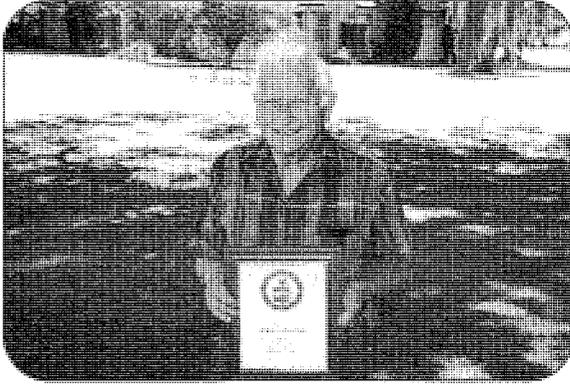


EUGENE C. UHRIG (center), observer, **SCOTTS MILLS 9 SE, OR**, was presented a **40-YEAR LENGTH-OF-SERVICE AWARD** along with a letter of appreciation. Gene operates a combination hydrologic and climate station at his ranch in the foothills of the cascades, northeast of Salem, OR. The presentation was made by Dean Sondag. Also at the ceremony was Clint Jenson both from NWSFO Portland, OR. Gene is shown with Cooperative Program Manager, Dean Sondag (right) along with long time ranch hand, Duke.



WAYNE TIENHAARA (right), observer, **DUFUR, OR**, was presented a **30-YEAR LENGTH-OF-SERVICE AWARD** by David R. Riker (left), Cooperative Program Manager from NWSO Pendleton. Mr. Tienhaara has provided daily weather observations since July of 1968 from his home in Dufur. Prior to his assuming these duties, these observations have been taken by members of his family since 1945.

WESTERN REGION



ROBERT CUNNINGHAM, observer, **MOLALLA 2 ESE, OR** was presented a **30-YEAR LENGTH-OF-SERVICE AWARD**. Mr. Cunningham reports river heights on the Molalla River when there is the possibility of flooding. Clint Jenson NWSFO Portland, made the presentation.



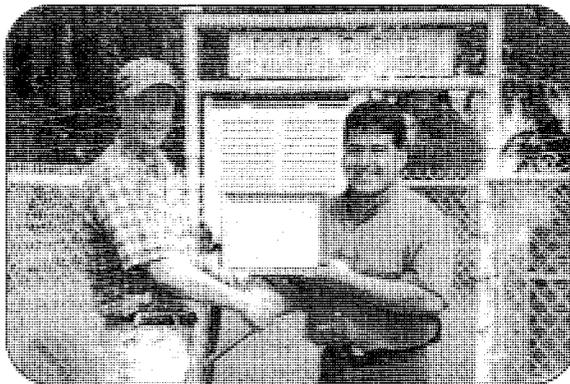
MRS. TROY MOORE (center), observer, **PLAIN, WA**, was presented a **30-YEAR LENGTH-OF-SERVICE AWARD** by NWSFO Spokane Hydrometeorological Technician Milt Maas (left). Also pictured is Mr. Moore (right).



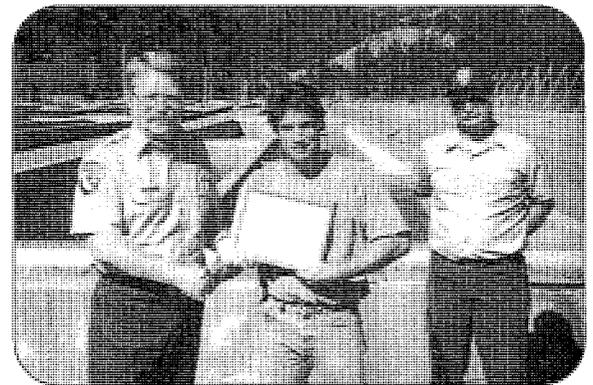
MR. HAROLD S. THOMSON (left), observer, **RICHARD, UT**, was presented a **30-YEAR LENGTH-OF-SERVICE AWARD** by Bill Alder (right), Meteorologist-In-Charge, NWSFO, Salt Lake City. Also in attendance were Mrs. Thomson, Dave Toronto and Steve Summy (NWSFO Salt Lake City), and Mark Anderson from the Utah State Climatologists' office.



A **25-YEAR INSTITUTIONAL AWARD** was presented to the **OREGON STATE FISH AND WILDLIFE DEPARTMENT, LACOMB 3 NNE, OR**. The presentation was made at the Roaring River Hatchery by Clint Jenson, and Dean Sondag. Pictured from left to right: Dan Emmons, Don Faulhaber (Hatchery Manager), Ron Harron, and Bob Dahlberg.

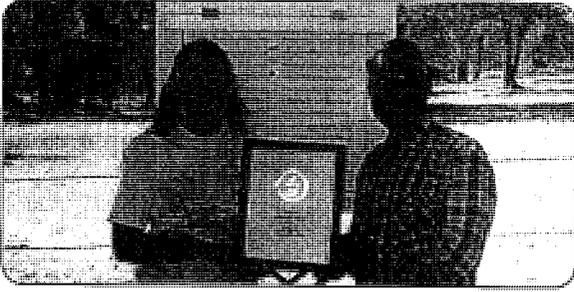


A **25-YEAR INSTITUTIONAL AWARD** was presented to the **CENTRAL CALIFORNIA IRRIGATION DISTRICT, LOS BANOS, CA**. The award was presented to Oscar Avila (right) of CCID by National Weather Service representative Brad Adams (left).



A **25-YEAR INSTITUTIONAL AWARD** was presented to the staff at the **TRINITY RIVER HATCHERY, CA**. Accepting the award from Jim Fahy (center), Cooperative Program Manager, is Gary Ramsdem (left). Looking on in background is Laird Marshall (right).

WESTERN REGION



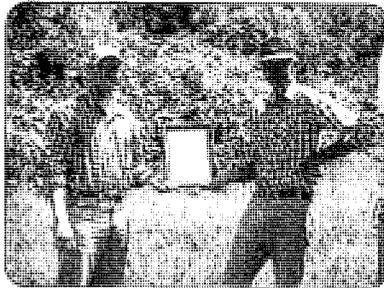
TERESA ROYAT, observer, **DOBBINS, CA** was presented a **20-YEAR LENGTH-OF-SERVICE AWARD**. Pictured left to right: Teresa and her father, Ernest Royat.



DONNA A. WALLACE (right), observer, **TYGH VALLEY, OR**, was presented a **15-YEAR LENGTH-OF-SERVICE AWARD** by David R. Riker (left) NWSO Pendleton.



A **10-YEAR LENGTH-OF-SERVICE AWARD** was presented to **MISHA CHOCHOLAK** (right), observer, **COVE 1 E, OR**, by Jim Zdrojewski (left), Data Acquisition Program Manager at NWSFO Pendleton.



A **10-YEAR LENGTH-OF-SERVICE AWARD** was presented to **LLOYD G. KENWOOD** (right), observer, **THREE RIVERS, CA** by Cooperative Program Manager Brad Adams (left), NWSO Sacramento.

These and other publications are available from the National Climatic Data Center

Hourly Precipitation Data

This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundredths at local standard time. **HPD** includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

Climatological Data

Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July through June.

The Annual issue contains monthly and annual averages of temperature, precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly cooling degree days.

Storm Data

Monthly issues contain a chronological listing, by states, of occurrences of storms and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage. An "Outstanding storms of the month" section highlights severe weather events with photographs, illustrations, and narratives. The December issue includes annual tornado, lightning, flash flood, and tropical cyclone summaries.

Monthly Climatic Data for the World

This publication contains monthly means for temperature, pressure, precipitation, vapor pressure, and sunshine for approximately 2,000 surface data collection stations worldwide and monthly mean upper air temperatures, dew point depressions, and wind velocities for approximately 500 observing sites.

Local Climatological Data

LCD summarizes temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for several hundred cities in the U.S. and its territories. Each monthly publication also contains the 3 hourly weather observations for that month and an hourly summary of precipitation. Annual **LCD** publications contain a summary of the past calendar year as well as historical averages and extremes.

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