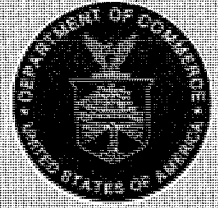


The National Cooperative Observer

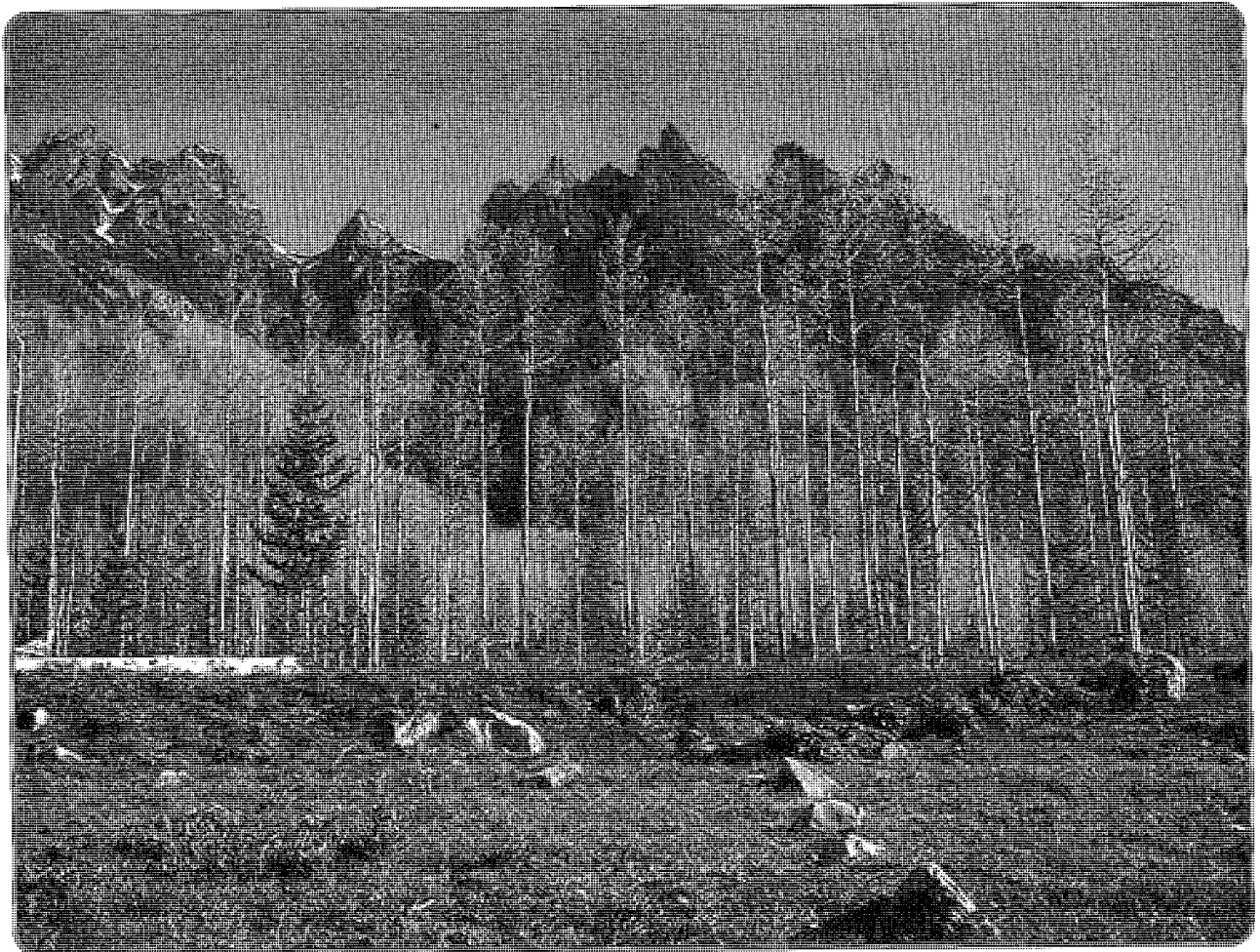


Spring 1999

Eastern Region

Southern Region

Central Region



Alaska Region

Western 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.

NO SUBMISSIONS RECEIVED FROM THE PACIFIC REGION

CONTENTS

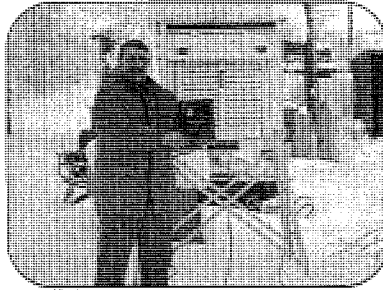
	Page
Alaska Region	3
Central Region	4
COOP Observer Appreciation Day	11
Corrections to Central Region Winter 1998	12
Eastern Region	13
Southern Region	16
Western Region	20

COVER: Spring picture of aspen trees with mountains in the background. This picture was taken near Aspen, Colorado.

ALASKA REGION



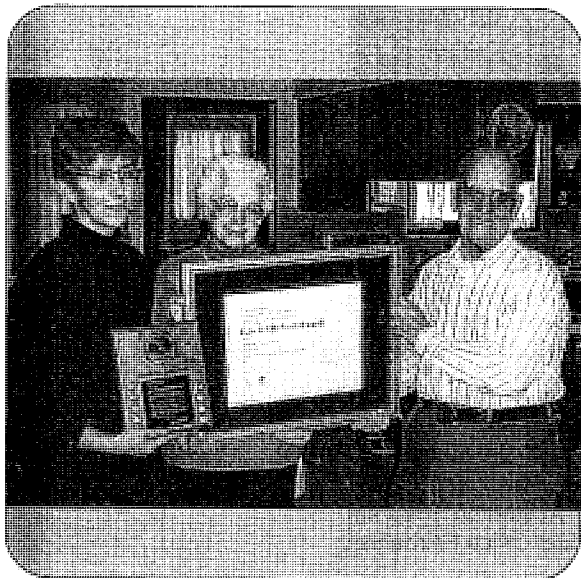
A 30-YEAR LENGTH-OF-SERVICE AWARD was presented to GEORGE JACOBS (right), observer, TOK, AK, by Tony Davis (left), Hydrometeorological Technician/Cooperative Program Manager. Picture taken by Mike Centers, Data Acquisition Program Manager, Weather Service Forecast Office Fairbanks, AK.



A 10-YEAR LENGTH-OF-SERVICE AWARD was presented to DAN PEARSON, observer, CIRCLE, AK, by Tony Davis.

CENTRAL REGION

EDWARD H. STOLL AWARD



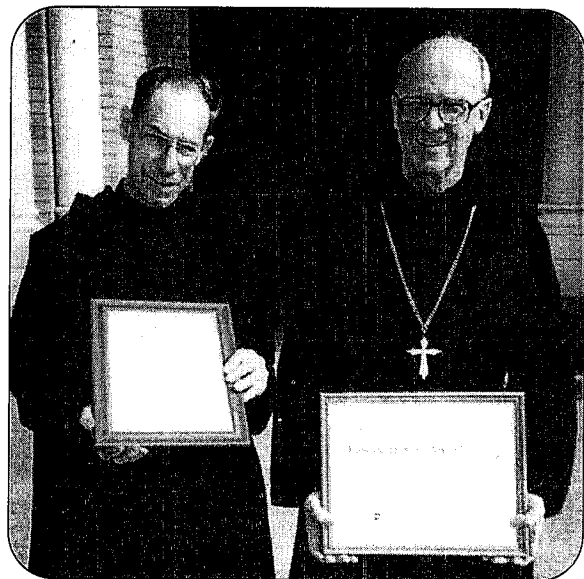
MR. ANDY ANDERSON (right), observer, FAIRMONT, NE, received the EDWARD H. STOLL AWARD from David Decker, Hydrometeorological Technician Hastings. Mr. Anderson has been reporting the temperatures and precipitation for the Fairmont area since March 1, 1949. Also pictured is Linda Campbell (left), Andy's daughter and Helen Anderson (center), Andy's wife of sixty-three years.

EDWARD H. STOLL AWARD



WILLIAM ROUSE, observer, IMPERIAL, NE, was presented the EDWARD H. STOLL AWARD. From left to right: Willard Rouse; David Wert, Meteorologist-in-Charge; Willard's wife, Ava Rouse; and Kathy Butler, Data Acquisition Program Manager. Mr. Rouse was a Thomas Jefferson Award winner in 1998 and has been taking observations for nearly 51 years.

EDWARD H. STOLL AWARD



Pictured is Abbot Patrick Moore (right) and Brother John Patrick Arnett (left) accepting the posthumous EDWARD H. STOLL AWARD and a 50-YEAR LENGTH-OF-SERVICE AWARD for BROTHER PHILIP J. KRESS, observer, RICHARDTON, ND. Brother Philip ranked among the best weather observers North Dakota ever had. Unfortunately, he passed away in February 1999, before the presentation could be made.

50-YEAR INSTITUTIONAL AWARD



LOUISVILLE MCALPINE LOCK AND DAM, LOUISVILLE, KY, accepted a 50-YEAR INSTITUTIONAL AWARD. Pictured left to right (front row): Larry Dattilo, Data Acquisition Program Manager; Marvin Maddox, Meteorologist-In-Charge; Bill Browning, COE; and Rick Lasher, Cooperative Program Manager.

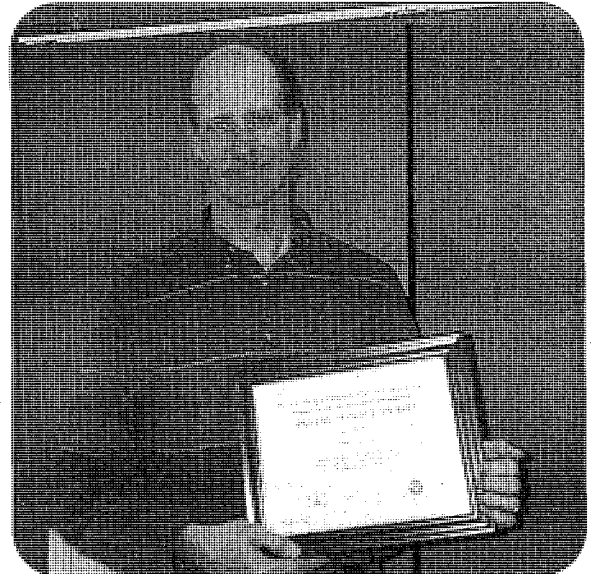
CENTRAL REGION

50-YEAR INSTITUTIONAL AWARD



MARSHALLTOWN WATER PLANT, MARSHALLTOWN, IA, received a 50-YEAR INSTITUTIONAL AWARD. Pictured left to right: Carrel Barlow, National Weather Service; four members of the water plant; and Deanna Neldeberg, Marshall County Emergency Manager.

SPECIAL SERVICE AWARD



The Grand Junction National Weather Service thanked MARK DAILY, observer, GUNNISON, CO, for his accuracy and dedication to the COOP Program with the presentation of a SPECIAL SERVICE AWARD. Mark has been the observer at the Gunnison County Electric Association Inc. since the site began reporting in October of 1993.

SPECIAL SERVICE AWARD



JACK HIGGINS, observer, ST. PAUL NO. 2, ST. PAUL 3 N, AND ST. PAUL 4 N, NE, was presented with a SPECIAL SERVICE AWARD. Pictured left to right: Larry Wirth, Hydrometeorologist Technician; Jack and his wife Peggy; and John Griffith, Meteorologist.

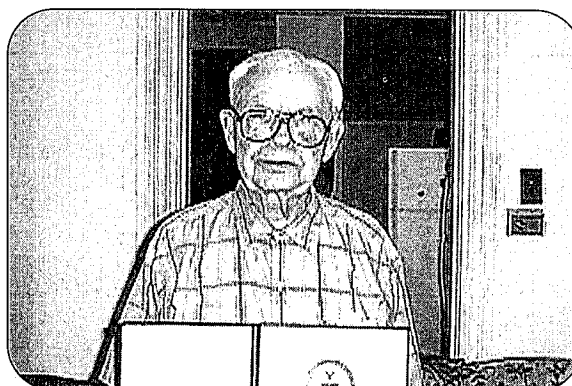


JAMES I. NEWLAND (left); observer, COLONY, WY, was presented a 45-YEAR LENGTH-OF-SERVICE AWARD by Dave Carpenter (right), Meteorologist-In Charge. The award was presented at Mr. Newland's eighty-eighth birthday party.

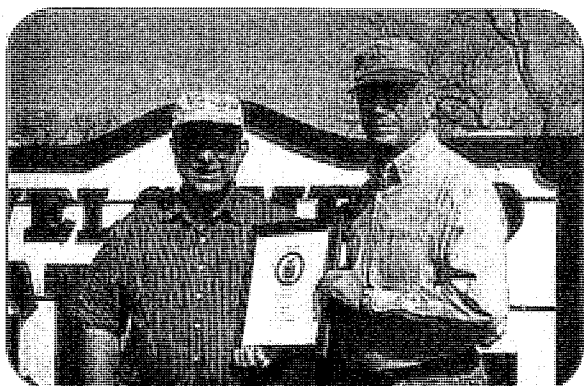
CENTRAL REGION



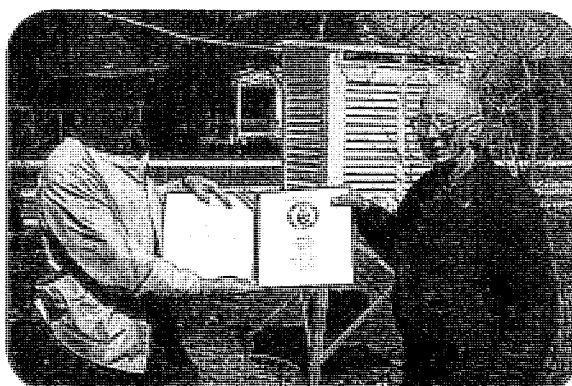
MR. JACK H. SHARPE (left), observer, LA HARPE, IL, was presented his 45-YEAR LENGTH-OF-SERVICE AWARD. Presentation was by Terry Simmons (right), Meteorological Intern and the picture was taken by Ted Stimach (Cooperative Program Manager/Hydrometeorological Technician). Also pictured is Mrs. Sharpe (center).



MR. FRED A. LISCHER, observer, NEWATHENS, IL, was presented with a 35-YEAR LENGTH-OF-SERVICE AWARD by Cooperative Program Manager, Ann Rundel of Weather Service Forecast Office St. Louis.



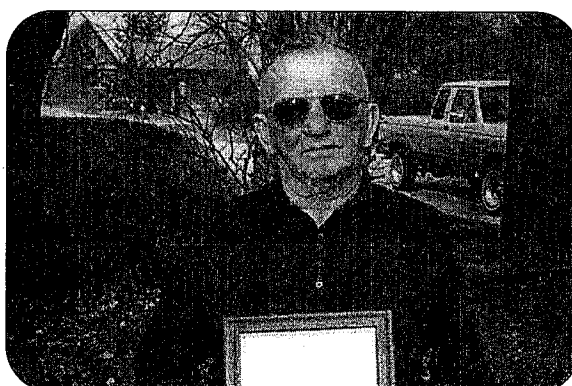
EDWARD H. ANDRES, observer, (right), ELBING, KS, was presented a 30-YEAR LENGTH-OF-SERVICE AWARD. This award was presented by Leon Wasinger (left), Cooperative Program Manager, from Weather Forecast Office Wichita, KS, Central Region.



MR. JAMES W. RUETZ (right), observer, MONTPELIER, OH, was presented his 30-YEAR LENGTH-OF-SERVICE AWARD from Michael R. Hayes (left), Cooperative Team Leader. Mr. Ruetz has also received the John Campanius Holm award.



A 30-YEAR LENGTH-OF-SERVICE AWARD was presented to MR AND MRS. UDELL WILLIAMS, observers, NORTH LOUP, NE by Larry Hastings, Hydrometeorological Technician.



MR. ROY FREDERICK, observer, AMIDON, ND, was presented a 25-YEAR LENGTH-OF-SERVICE AWARD by Vern Roller, Hydrometeorological Technician/Cooperative Program Manager.

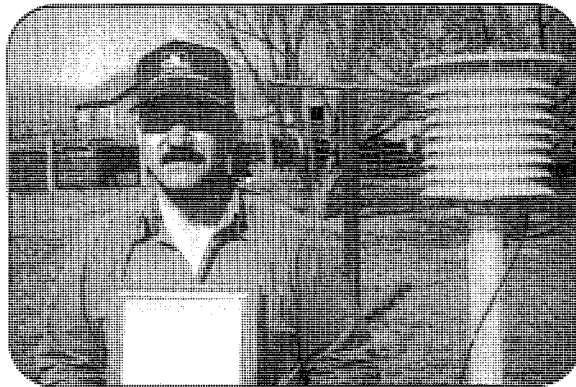
CENTRAL REGION



MR. ALFRED BOLTE, observer, BOWMAN, ND, was presented a 25-YEAR LENGTH-OF-SERVICE AWARD by Vern Roller.



LAURAETTA JEAN CONNER, observer, DERBY, IA, was presented a 25-YEAR LENGTH-OF-SERVICE AWARD.



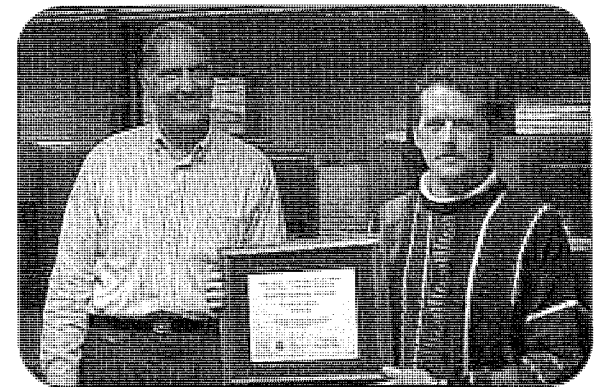
MR. DARYL T. HEUPEL, observer, PRETTY ROCK, ND, was presented with a 25-YEAR LENGTH-OF-SERVICE AWARD by Vern Roller.



The MARSHALLTOWN WATER POLLUTION CONTROL PLANT, MARSHALLTOWN, IA, was presented a 25-YEAR INSTITUTIONAL AWARD by Carrel Barlow. Pictured left to right: Mike Fields, plant manager; Randy Danie and Jake Jacobson, plant employees; and Carrel Barlow.



A 25-YEAR INSTITUTIONAL AWARD was presented to MOREHEAD STATE UNIVERSITY FARM, MOREHEAD, KY. Pictured left to right: Jeff Carcio, Hydrometeorological Technician; Dave Egelston and Eddie Lundergan, observers; and Mike McLane, Service Hydrologist.

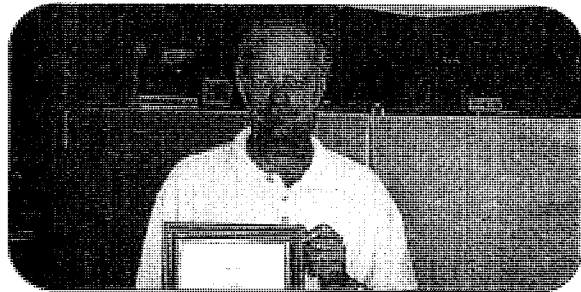


Brad Maschino (right), accepts a 25-YEAR INSTITUTIONAL AWARD on behalf of the SIOUX FALLS EROS DATA CENTER, SIOUX FALLS, SD.. The award was presented by NWS Central Region Director Richard Augulis (left) during an awards ceremony that was part of the first ever "COOP Observer Appreciation Day and Open House".

CENTRAL REGION



MICHAEL (STRETCH) OVERTURF, observer, CLAY CENTER 6 ESE, NE, was presented a 20-YEAR LENGTH-OF-SERVICE by Mary Black, Intern, National Weather Service Hastings.



JOHN EDGECOMBE JR., observer, GENEVA, NE, received 20-YEAR LENGTH-OF-SERVICE AWARD from Mary Black.



MR. CARL E. HOHL (right), observer, KEOSAU-QUA, IA, was presented his 20-YEAR LENGTH-OF-SERVICE AWARD. Presentation was by Rich Kinney (left), Meteorological Intern and the picture was taken by Ted Stimach, Hydrometeorological Technician/ Cooperative Program Manager.



NADINE JENSON, observer, MASSENA, IA, proudly displays her 20-YEAR LENGTH-OF-SERVICE AWARD.



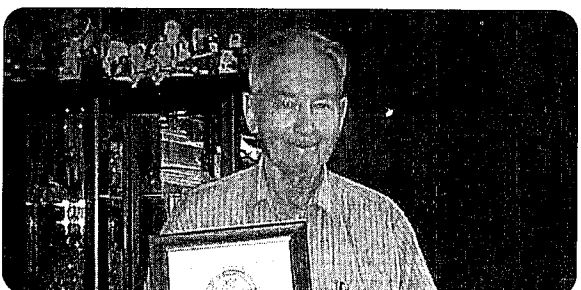
ALAN GALBRAITH, observer, SAC CITY, IA, receiving his 20-YEAR LENGTH-OF-SERVICE AWARD.



GALEN EIBEN, observer, SHELL ROCK, IA, received his 20-YEAR LENGTH-OF-SERVICE AWARD.



ROBERT W. NETOLICKY (center), observer, WALFORD 2 SE, IA, was presented his 20-YEAR LENGTH-OF-SERVICE AWARD by Ted Stimach (left). Picture was taken by Jeff Zogg, Service Hydrologist. Also pictured is Mrs. Netolicky (right).

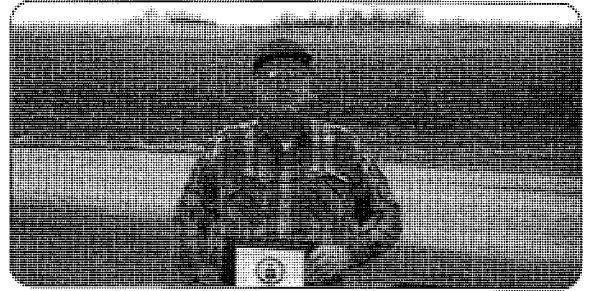


JOHN W. FIGAL, observer, WALSENBURG, CO, was presented with a 20-YEAR LENGTH-OF-SERVICE AWARD.

CENTRAL REGION



CLIFTON STORER, observer, ALTON 6 ESE, KS, was awarded a 15-YEAR LENGTH-OF-SERVICE AWARD by Bobby West, Hydrometeorologist Technician/Hastings.



DANNY STARITS, observer, GARWIN, IA, was presented with a 15-YEAR LENGTH-OF-SERVICE AWARD.



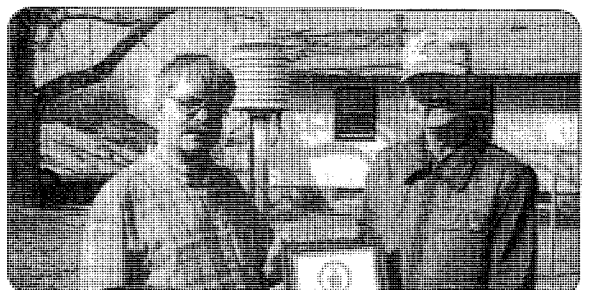
DAVID SIEGFRIED, observer, HEART BUTTE DAM, ND, was awarded his 15-YEAR LENGTH-OF-SERVICE AWARD. Picture and presentation were by Vern Roller.



MARIE KRUSE (left), observer, LADORA, IA, was presented a 15-YEAR LENGTH-OF-SERVICE AWARD by Jeff Zogg (right). Picture was taken by Ted Stimach.



ROLAND CAULKING(left), observer, MONMOUTH 4 NW, IL, was presented with his 15-YEAR LENGTH-OF-SERVICE AWARD by Terry Simmons (right). Picture was by Ted Stimach.



MR. ALLEN SCHMIDT (right), observer, NEW ENGLAND, ND, received his 15-YEAR LENGTH-OF-SERVICE AWARD from Vern Roller (left).



BRIAN WALDSTEIN, observer, SIOUX RAPIDS 4 E, IA, was presented with a 15-YEAR LENGTH-OF-SERVICE AWARD at the first ever "COOP Observer Appreciation Day and Open House".

CENTRAL REGION



EDWARD EUGENE MCALEXANDER, observer, BEACONFIELD, IA, was presented his 10-YEAR LENGTH-OF-SERVICE AWARD.



RALPH KIBBY, observer, CONRAD, IA, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD. He actually has been a weather service observer over 25 years serving at different locations.



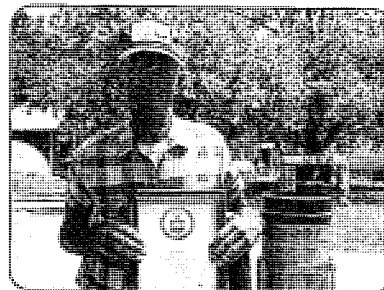
TERRY WIXON (right), observer, CORSON 1 E, SD, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by Sioux Falls Meteorologist-in-Charge, Greg Harmon (left).



JAMES ADKINS (left), observer, DEXTER, IA, was presented with a 10-YEAR LENGTH-OF-SERVICE AWARD by Carrel Barlow (right).



RAYMOND E. TULL (right), observer, DONNELLSON, IA, was presented his 10-YEAR LENGTH-OF-SERVICE AWARD by Ted Stimach, (left). Picture was taken by Rich Kinney.



DON SCHIERMEYER, observer, GUIDE ROCK, NE, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by John Purdy from Hastings National Weather Service.



MR. REAGAN CLAUSE (left), observer, MACOMB, IL, was presented with his 10-YEAR LENGTH-OF-SERVICE AWARD by Ted Stimach (right). Picture was taken by Terry Simmons.



MARY AND JOHN SMITH, observers, MARCELL 5 NE, MN, were presented a 10-YEAR LENGTH-OF-SERVICE AWARD.



ROBERT CLEMENTS, observer, RIVERTON AND RIVERTON NO. 2, NE, was presented with a 10-YEAR LENGTH-OF-SERVICE AWARD by Bobby West.

CENTRAL REGION

COOP OBSERVER APPRECIATION DAY AND OPEN HOUSE



A good time was had by all at the first ever "COOP Observer Appreciation Day and Open House" held at National Weather Service Forecast Office Sioux Falls, SD. A special awards ceremony was part of the festivities for length of service awards. To make the occasion even more special, Central Region Director Richard Augulis was on hand to present the awards. In addition to the awards, observers were given a tour of the office and shown the important role they play in the National Weather Service mission. Pictured above left to right: Hal Storey, CHMT; Merrill Sterler, COOP observer; and Mrs. Sterler.

CENTRAL REGION

CORRECTION: In the Winter 1998 edition of the National Cooperative Observer captions on page four for cooperative observer Glen Rutherford's thirty-year length-of-service award and cooperative observer Hind Leask's forty-year length-of-service award are reversed. Please see the pictures with corrected captions below. The Editor apologizes for the error.



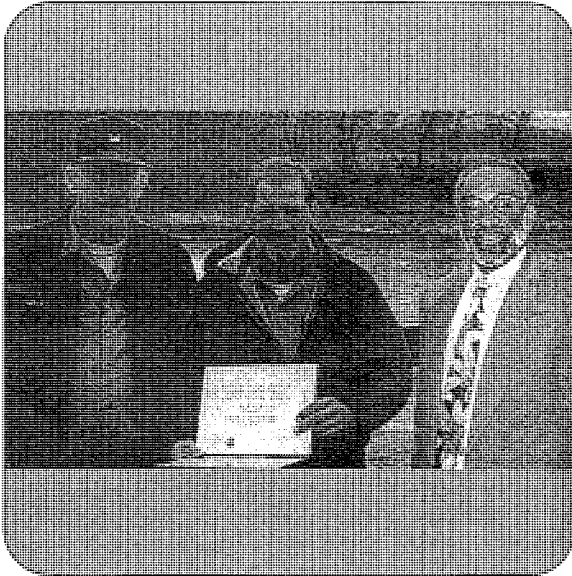
HIND LEASK, observer, BAYFIELD 6 N, WI, received a 40-YEAR LENGTH-OF-SERVICE AWARD. Pictured left to right: Michael Stewart, Meteorologist-In-Charge; Hind Leask; Mildred Leask, wife; and Jim Christenson, Cooperative Program Manager.



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

EASTERN REGION

75-YEAR INSTITUTIONAL AWARD



U.S. CORPS OF ENGINEERS, observers, CARROLLTON LOCK 1, KY, were presented a 75-YEAR INSTITUTIONAL AWARD. Photo courtesy of the Carrollton, KY, News-Democrat. Pictured from left to right: Jerry Connelly, Wayne Deal and Sam McNeil.

EDWARD H. STOLL AWARD



JOHN SWAINE JR. ((right), observer, ROYAL OAK, MD, was presented the EDWARD H. STOLL AWARD by Roy Miller (left), Data Acquisition Program Manager and Jim Gross, Cooperative Program Manager.

50-YEAR INSTITUTIONAL AWARD



DELAWARE LAKE DAM, DELAWARE LAKE, OH, received a 50-YEAR INSTITUTIONAL AWARD. Pictured above left to right: Ken Haydu, Sharon Law, Dennis Probst, and Ben O' Dell.

SPECIAL SERVICE AWARD



RONY LEE, observer, HIGHTOWN, NJ, was presented a SPECIAL SERVICE AWARD by Gary Szatkowski, Meteorologist-In-Charge, and Jim Gross, Cooperative Program Manager. Pictured left to right: Gary S. Szatkowski, Rony Lee, Jim Gross.

EASTERN REGION

SPECIAL SERVICE AWARD



MARY PAYNE, observer, LIMA, OH, was presented a SPECIAL SERVICE AWARD by Don Hughes.



EDWARD FLITCRAFT, observer, WOODSTOWN, NJ, was presented a 40-YEAR LENGTH-OF-SERVICE AWARD by Gary Swatkowski and Roy Miller. Pictured left to right: Gary Swatkowski, Edward Flitcraft, and Roy Miller.



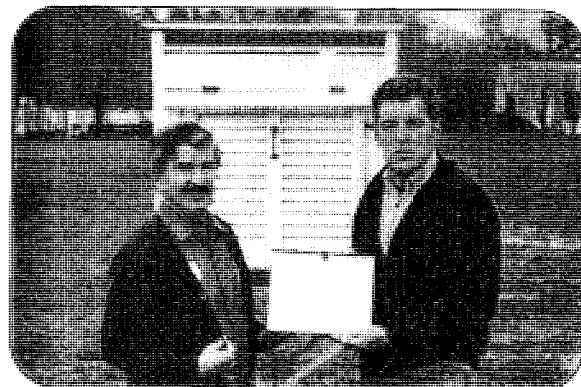
RICHARD H. LEE (center), observer, HIGHSTOWN, NJ, was presented a 25-YEAR LENGTH-OF-SERVICE AWARD by Gary Swatkowski (left) and Roy Miller (right).



GLENN HARNER (center), observer, XENIA 6 SSE, OH, was presented a 25-YEAR LENGTH-OF-SERVICE AWARD by Ken Haydu (right) and Sam McNeil (left).



CHATHAM WATER PLANT, CHATHAM, VA, received a 25-YEAR INSTITUTIONAL AWARD by Jim White (right), Hydrometeorologist Technician. Accepting the award is R.L. Wooldridge (left).



MOORESTOWN TOWNSHIP PUBLIC WORKS, MOORESTOWN, NJ, received a 25-YEAR INSTITUTIONAL AWARD from Jim Gross, Cooperative Program Manager. Pictured left to right: Edward Poplawski, operator and Ray Warner, Supervisor.

EASTERN REGION



BURLINGTON COUNTY ENGINEERS, MOUNT HOLLY, NJ, received a 25-YEAR INSTITUTIONAL AWARD from Gary Szatkowski and Walt Nickelsberg, Service Hydrologist. Pictured left to right: Gary Szatkowski; Joe Caaruso, Engineering Supervisor; Henry Singer, Engineer and principal observer; and Walt Nickelsberg.



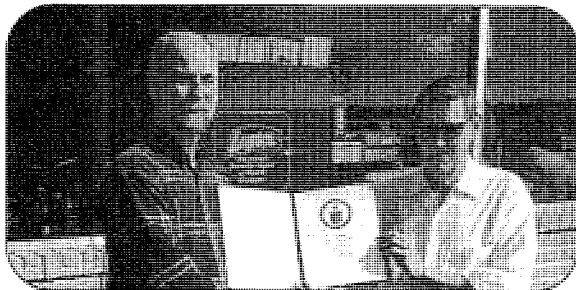
NEWTON ST. PAUL ABBEY, NEWTON, NJ, received a 25-YEAR INSTITUTIONAL AWARD from Gary Szatkowski. Pictured left to right: Gary Szatkowski, Brother Luke O'Connell, observer, and Bill Christ, Cooperative Program Manager, PHI.



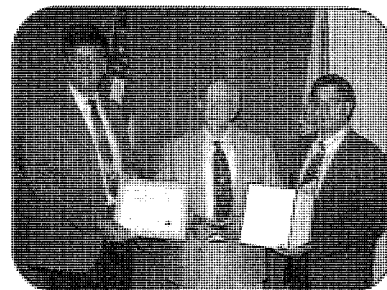
MRS. JUANITA POWELL, observer, GOSHEN, VA, was presented a 20-YEAR LENGTH-OF-SERVICE AWARD by Jim White, Hydrometeorological Technician.



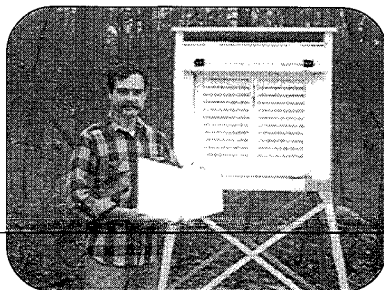
JOHN STEPHENSON, observer, KINGS MILLS, OH, was presented with a 15-YEAR LENGTH-OF-SERVICE AWARD. Pictured left to right: Ken Haydu, Julie Dian-Reed, John Stephenson, and Sam McNeil.



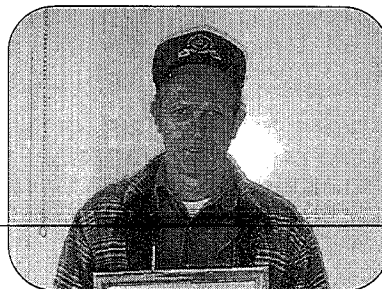
MR. OUTLAW (right), observer, WARSAW 5 E, NC, was presented with a 15-YEAR LENGTH-OF-SERVICE AWARD by Thomas Kriehn (left).



FREDERICK MILLER (center), observer, INDIAN MILLS, NJ, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by Gary Szatkowski (left) and Joseph Miketta (right).



DENNIS GRAY, observer, NEW LISBON, NJ, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD.



RONALD W. MILLER, observer, ROSEDALE 2 SE, WV, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD.



ROBERT RIGGS (right), observer, VEVA, IN, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by Sam McNeil (left).

SOUTHERN REGION

JOHN CAMPANIUS HOLM AWARD



MRS. MILINDA AHRENS (right), observer, COTTONWOOD, TX, was presented the JOHN CAMPANIUS HOLM AWARD. The award was presented by Dennis Cook (left), Hydrometeorologist Technician from the Austin/San Antonio Forecast Office. Meteorologist-In-Charge Al Dreumont and Data Acquisition Program Manager Bill Runyon from the forecast office were also in attendance.

75-YEAR INSTITUTIONAL AWARD



The CITRUS RESEARCH AND EDUCATION CENTER OF THE UNIVERSITY OF FLORIDA, LAKE ALFRED, FL, received a 75-YEAR INSTITUTIONAL AWARD. Pictured left to right: Ken Jacoson, Physical Plant Coordinator; accepting the award is Bill Clayton, Cooperative Observer supervisor/ contact; presented Colleen Rhea, Data Acquisition Program Manager, and Dan Sobien, Meteorologist both of NWSO TBW.

EDWARD H. STOLL AWARD



MR. ARTHUR W. (BILL) MORGAN (left), observer, BORGER, TX, was presented the EDWARD H. STOLL AWARD. Bill received the John Campanius Holm Award in 1973 and the Thomas Jefferson Award in 1991. The award was presented by Mr. Jose M. Garcia (right), Meteorologist-In-Charge with the assistance from Bill Beams, Data Acquisition Program Manager.

SOUTHERN REGION

EDWARD H. STOLL AWARD

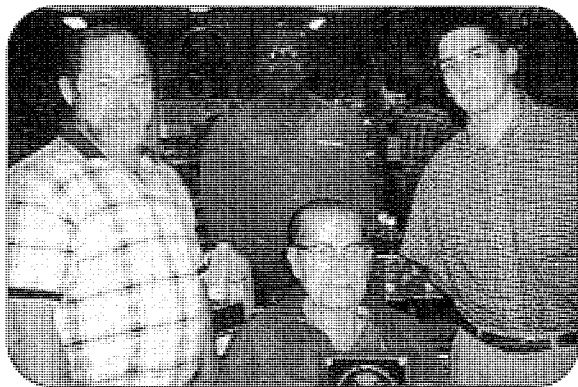


MR. BERNARD M. WALTHER (center), observer, CABOT 4 SW, AR, was presented the EDWARD H. STOLL AWARD by Ed Pasierb (right), Hydrometeorological Technician, and Renee Fair (left), Meteorologist-In-Charge, both of the National Weather Service Forecast Office in North Little Rock.

SPECIAL SERVICE AWARD



LYNN HALL (center), observer, DEL RIO 2 NW, TX, was presented a SPECIAL SERVICE AWARD. The award was presented by Hydrometeorological Technician Dennis Cook (left), and Service Hydrologist John Patton (right) of the Autsin/San Antonio forecast office.



MR. TOM VAUGHN (seated), observer, JONESVILLE, TX, was presented a 50-YEAR LENGTH-OF-SERVICE AWARD. The award was present by Data Acquisition Program Manager Marion Kuykendal (center rear), Hydrometeorologist Technician Steve Griffin (left), and MET Casey Sullivan (right), all from the Shreveport, LA, Forecast Office.



A 45-YEAR LENGTH-OF-SERVICE AWARD was presented to BERNARD H. COGGINS (center), observer, BALDWIN, MS, by Jim Duke, Meteorologist-In-Charge (left) and James Jackson, Data Acquisition Program Manager (right) from the National Weather Service Office, Memphis, TN.

SOUTHERN REGION



MR. AND MRS ARCHIE C. THOMAS, observers, NORAVIA 2 NNE, OK, were presented a 40-YEAR LENGTH-OF-SERVICE AWARD. The award was presented by Carl Wilkins from the Norman Forecast Office.



MR. DARRAL G. WATSON, observer, WAYSIDE, TX, received a 35-YEAR LENGTH-OF-SERVICE AWARD. Mr. Watson and his family operate the local gas station, propane filling station, auto repair garage, snack place and Post Office for the community. Award was presented by Jose Garcia and Bill Beams.



JESSIE FAY BARNES (right), observer, HENDERSON, TX, was presented a 25-YEAR LENGTH-OF-SERVICE AWARD by Marion Kuykendall (left).



MR. JOHN W. MADDOX (right), observer, ROME, GA, was presented a 25-YEAR LENGTH-OF-SERVICE AWARD. The award was presented by Nate Mayes, Hydrometeorological Technician from the Peachtree City (Atlanta) Forecast Office.

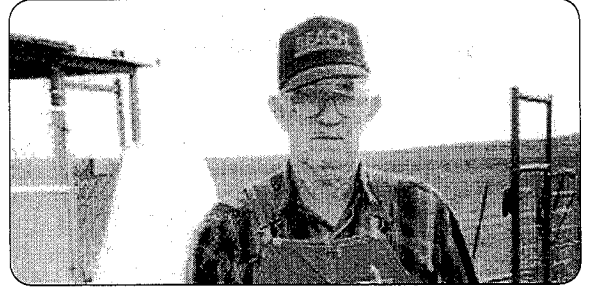


MARTIN FIRE TOWER, NATCHTIOCHES, LA, was presented with a 25-YEAR INSTITUTIONAL AWARD by Marion Kuykendall. Pictured are observers at the fire tower.

SOUTHERN REGION



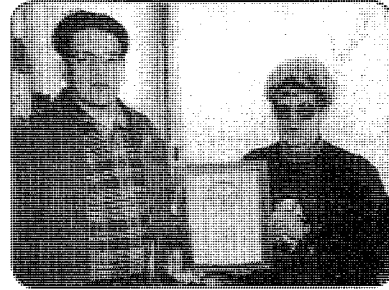
MAYOR BUDDY ZAVESKY (right), GOLIAD, TX, accepts a 20-YEAR LENGTH-OF-SERVICE AWARD by Joe Arellano, Jr, Meteorologist-In-Charge, of WFO Corpus Christi, TX (CRP). The award was presented to the Mayor and city council members.



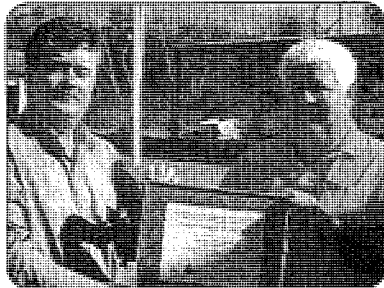
MR. ROY G. BRIDWELL, observer, RIVERSIDE 4 W, OK, received a 20-YEAR LENGTH-OF-SERVICE AWARD from Bill Beams. Mr. Bridwell's family has farmed their ancestral land along the Beaver River since the early nineteen-hundreds.



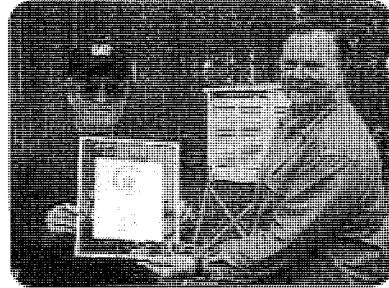
MR. EDWIN NEISSER (left), observer, VICTORIA 9 ESE is presented with a 15-YEAR LENGTH-OF-SERVICE AWARD by Dave Davenport, Data Acquisition Program Manager, WFO Corpus Christi, TX (CRP).



MS. RUTH SIPES (right), observer, EVA, OK, received a 10-YEAR LENGTH-OF-SERVICE AWARD. The award was presented by Matthew Duplantis (left), a meteorologist from the Amarillo Forecast Office. The picture was taken by Bill Beams.



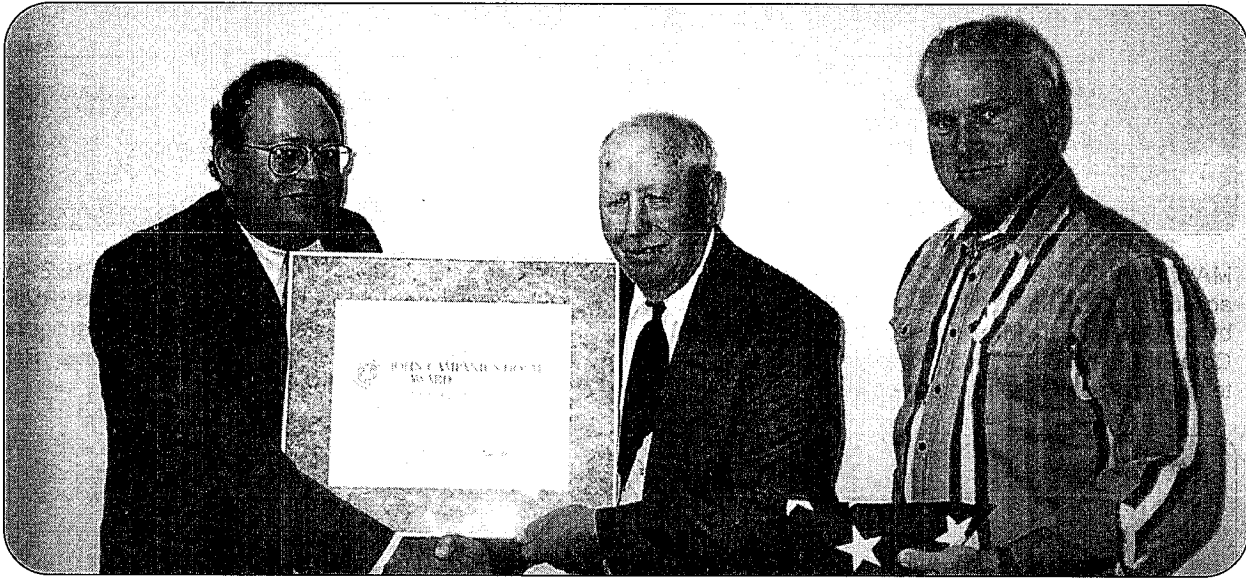
MR. NATHAN BOYD (right), observer, FERNANDINA BEACH, FL, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by Bob Kerris (left), Hydrometeorological Technician of the Jacksonville Forecast Office.



MR. THOMAS YAWN (left), observer, HOMEVILLE 3 WSW, GA, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by Jim Boone (right), Hydrometeorological Technician of the Jacksonville Forecast Office.

WESTERN REGION

JOHN CAMPANIUS HOLM AWARD



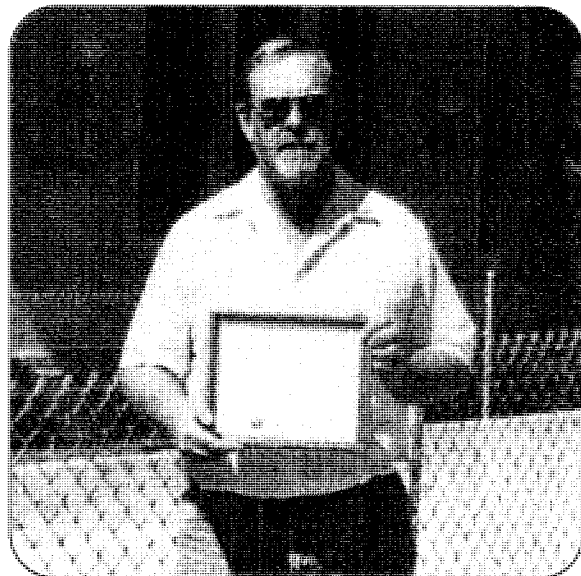
MR THORVALD E. ANDERSON (center), observer, MELVILLE 4 W, MT, was presented the JOHN CAMPANIUS HOLM AWARD. Presenting the award was Bob Diaz (left), Meteorologist-In-Charge, National Weather Forecast Office in Billings. An American Flag was presented by Danny Graves (right), Data Acquisition Program Manager, NWFO Billings to Mr. Anderson, for the years of dedicatted service to his country. A "Baron of Beef" banquet was put on by his proud family, inviting over fifty close friends and relatives. Mr. Anderson is well known for his working with the youth through the 4-H Club. Looking at the faces at the dinner you could tell the love the community has for this man! Photo taken by Bob Johnson, Cooperative Program Manager, Billings, MT.

75-YEAR INSTITUTIONAL AWARD



A 75-YEAR INSTITUTIONAL AWARD was presented to APACHE NITROGEN PRODUCTS, INC, BENSON, AZ. Shown are Glen Sampson, Meteorologist-In-Charge, NWSO Tucson (right), Robert Cashdollar, President and CEO, Apache Nitrogen Products (left), and staff members who participate in taking the weather readings.

75-YEAR INSTITUTIONAL AWARD



A 75-YEAR INSTITUTIONAL AWARD was presented to the LOS ANGELES DEPARTMENT OF WATER AND POWER for their observations at HAIWEE, CA. Tom Deshea accepted the award.

WESTERN REGION

HELMUT E. LANDSBURG AWARD



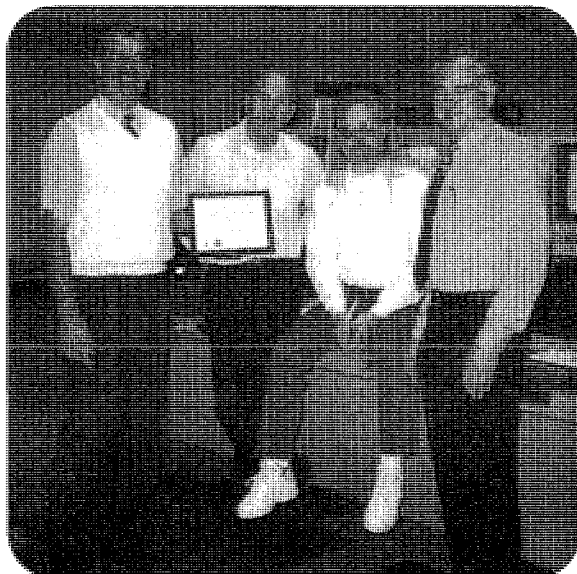
FRANK CIMRHAKL (left), observer, ROY 8 NE, MT, was presented the HELMUT E. LANDSBURG AWARD by Ken Mielke (right), meteorologist. Cimrhakl has not missed one reading in sixty years. With the Landsburg award, he has now received every award possible from the National Weather Service.

50-YEAR INSTITUTIONAL AWARD



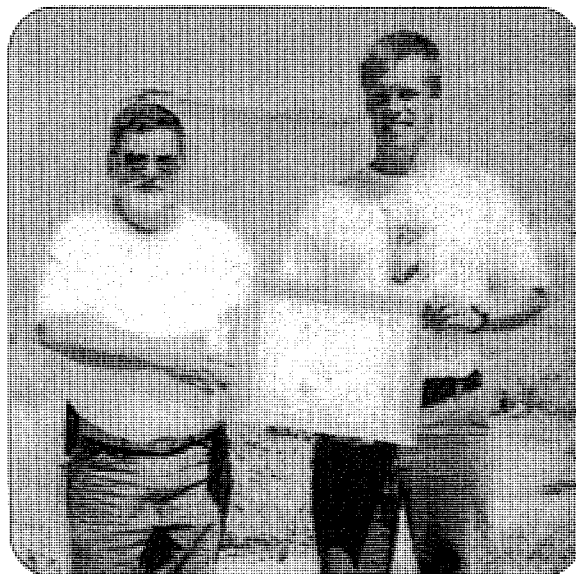
A 50-YEAR INSTITUTIONAL AWARD was presented to the U.S. ARMY CORPS OF ENGINEERS, BONNEVILLE DAM, OR. The presentation was made by Steve Todd (left), Meteorologist-In-Charge, NWSFO Portland. Accepting the award from left to right are Deborah Chenoweth, Project Operations Manager; Rangers, Joe Arnett and Greg Webb; and Jim Runkles, Park Manager.

50-YEAR INSTITUTIONAL AWARD



A 50-YEAR INSTITUTIONAL AWARD was presented to FAA CONTRACT WEATHER OFFICE, DAGGETT, CA. Presenting the award is Larry Jensen, Meteorologist-In-Charge (left). Receiving the award are the FAA observers from previous years Chuck Stewart, Jim Kelley and Chuck Burge.

50-YEAR INSTITUTIONAL AWARD



Andy Jennings (right) accepts a 50-YEAR INSTITUTIONAL AWARD for DEEP SPRINGS COLLEGE, CA. The award was presented by Ernie Cobb (left), Cooperative Program Manager, National Weather Service Office, Las Vegas, NV.

WESTERN REGION

50-YEAR INSTITUTIONAL AWARD



A 50-YEAR INSTITUTIONAL AWARD was presented to DOUGLAS FAA CONTRACT WEATHER OFFICE, DOUGLAS, AZ, by Glen Sampson (left), and Paul Crimmins, Data Acquisition Program Manager from National Weather Service Office, Tucson, AZ. Mr. Melvin (right), observer accepted the award.

50-YEAR INSTITUTIONAL AWARD



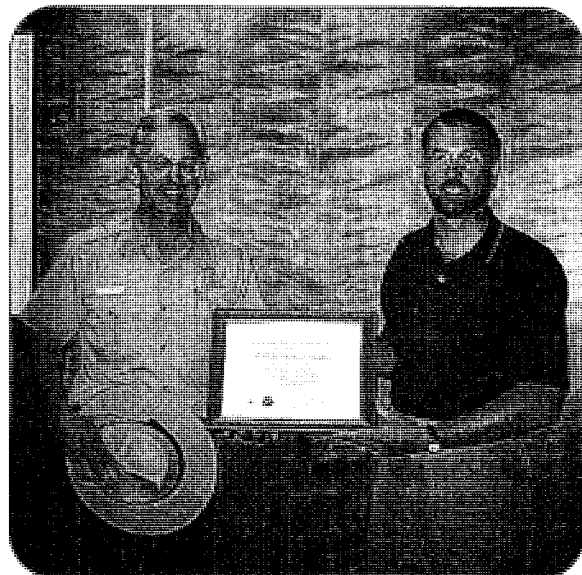
A 50-YEAR INSTITUTIONAL AWARD was presented to the ARROWHEAD FIRE STATION, LAKE ARROWHEAD, CA. From left to right: Pat Bennen, Fire Chief; Bob Linsley; John Jones; Armando Garza, Meteorologist-In-Charge, NWSO San Diego, presenting the award; Tom Hemphill; Bill Corxson; and Susanne Jaffe.

50-YEAR INSTITUTIONAL AWARD



Receiving a 50-YEAR INSTITUTIONAL AWARD is the LAKE ELSINORE STATION, LAKE ELSINORE, CA. Pictured left to right: John Rodriguez, Richard Ellenberger, Dan Beeson, Steven Slagle, John Walker, and Armando Garza presenting the award.

50-YEAR INSTITUTIONAL AWARD



A 50-YEAR INSTITUTIONAL AWARD was presented to U.S. NATIONAL PARK SERVICE, CHIRICAHUA NATIONAL MONUMENT, AZ, by Glen Sampson (right). Accepting the award for the Park Service is Alan Whalon (left), Ranger.

WESTERN REGION

50-YEAR INSTITUTIONAL AWARD



A 50-YEAR INSTITUTIONAL AWARD was presented to the FAA CONTRACT WEATHER OFFICE, NEEDLES, CA, by Larry Jenson (left). Accepting the award is Michael Miller (right).

50-YEAR INSTITUTIONAL AWARD



A 50-YEAR INSTITUTIONAL AWARD was presented to the U.S. FORECAST SERVICE, CASCADE HEAD EXPERIMENTAL FOREST, OTIS 2 NE, OR. Accepting the award is Thomas J. Mills (right), Director of Pacific Northwest Research Stations. The presentation was made by Steve Todd (left), Meteorologist-In-Charge.

50-YEAR INSTITUTIONAL AWARD



A 50-YEAR INSTITUTIONAL AWARD was presented to RIVERSIDE FIRE STATION #3, RIVERSIDE, CA. Shown from left to right: Ed Teran; Captain David Lesh; presenting the award Armando Garza; and Bob Linden.

50-YEAR INSTITUTIONAL AWARD



A 50-YEAR INSTITUTIONAL AWARD was presented to SAFFORD AGRICULTURAL CENTER, SAFFORD, AZ, by Glen Sampson and Paul Crimmins. Shown left to right: Glen Sampson; Eddie Carpenter, Farm Manager; and Dr. Lee Clark, Farm Director. Jane Schlittenhardt, primary observer, is not pictured.

WESTERN REGION



A 55-YEAR SERVICE AWARD was presented to MR. CLARENCE A. SCHAAD, observer, REX 1 S, OR. Making the presentation was Clint Jenson and Dean A. Sondag, Hydrometeorological Technician/Cooperative Program Manager, National Weather Service Forecast Office Portland.



LILA NOBLE (left), observer, LEADORE, ID, was presented her 40-YEAR LENGTH-OF-SERVICE AWARD by Ray Nickless (right), National Weather Service Office Missoula, MT.



A 25-YEAR INSTITUTIONAL AWARD was presented to the staff of the CORONADO FIRE DEPARTMENT, CORONADO, CA. Accepting the award on behalf of the staff were Chief John Traylor (center) and Rick Sitta (left). Presenting the award was Richard Stitt (right), Data Acquisition Program Manger., NWSO San Diego.



The staff at the DEL MAR FIRE DEPARTMENT, DEL MAR, CA, was presented a 25-YEAR INSTITUTIONAL AWARD by Richard Stitt (left). Accepting the award was Chief Jack Gosney (right). Others attending were Cricket Woods, Dispatcher and Brad Doyle, Hydrometeorological Technician/-Cooperative Program Manager NWSO San Diego.

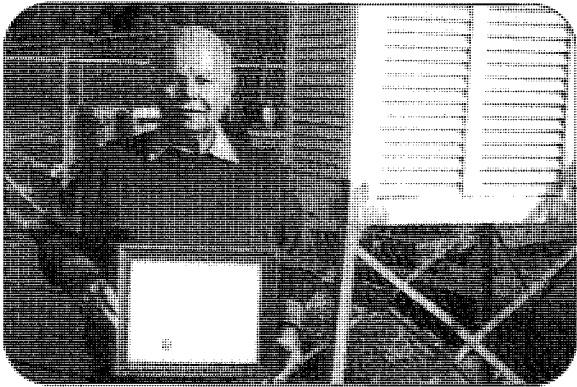


DWORSHAK FISH HATCHERY, DWORSHAK, ID, was presented a 25-YEAR INSTITUTIONAL AWARD by Garland Hardamon, Cooperative Program Manager, National Weather Service Office Missoula, MT. Pictured are employees of the fish hatchery.



The staff at IMPERIAL BEACH FIRE DEPARTMENT, IMPERIAL BEACH, CA, was presented a 25-YEAR INSTITUTIONAL AWARD. Accepting the award on behalf of the staff was Chief Ron Johnson (right). The award was presented by Richard Stitt (left).

WESTERN REGION



Bill Davis accepted a 25-YEAR INSTITUTIONAL AWARD for the LINDSAY-STRATHMORE IRRIGATION DISTRICT, LINDSAY, CA. The award was presented by Steve Mendenhall, Meteorologist-In-Charge, NWSO San Joaquin Valley. The Cooperative Station in Lindsey was established in 1913.



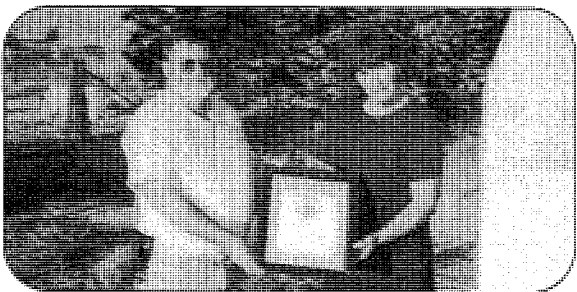
A 25-YEAR INSTITUTIONAL AWARD was presented to the MADERA COUNTY CALIFORNIA FIRE DEPARTMENT, MADERA, CA. Shown accepting the award are Battalion Chief Larry Cowger and Administrative Assistant Melissa Crawford. The cooperative station in Madera was originally established in 1899.



Steve Leslie is shown accepting a 25-YEAR INSTITUTIONAL AWARD on behalf of SPRING VALLEY STATE PARK, SPRING VALLEY, NV.



A 25-YEAR INSTITUTIONAL AWARD was presented to THERMAL FIRE STATION #39, THERMAL CA. Shown accepting the award is Fire Chief Ignacio Otero.



CAROL HANKS (right), observer, BLUE EAGLE RANCH, NV, accepts a 20-YEAR LENGTH-OF-SERVICE AWARD from Ernie Cobb (left), Cooperative Program Manager, National Weather Service Office Las Vegas.



MRS. MURIEL CHRUCH (right), observer, LAVERKIN, UT, accepts a 20-YEAR LENGTH-OF-SERVICE AWARD from Ernie Cobb (left).

WESTERN REGION



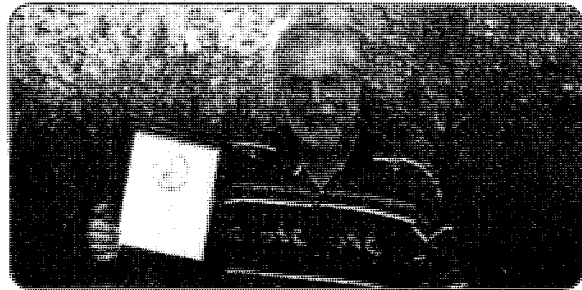
BILL SHERMAN (left), observer, WILLOW BEACH, AZ, accepts a 20-YEAR LENGTH-OF-SERVICE AWARD from Larry Jenson (right).



MR. RICHARD REISENAUER (right), observer, ANACONDA, MT, was presented his 15-YEAR LENGTH-OF-SERVICE AWARD. Presentation was made by Ray Nickless (left), Service Hydrologist and Peter felsch(not shown) WCM from NWSO Missoula, Montana.



KATHLEEN RONCO, observer, FALLS CITY, OR, was presented a 15-YEAR LENGTH-OF-SERVICE AWARD by Dean Sondag.



BILL MORAN,observer, LIBBY 32 SSE, MT, was presented with a 15-YEAR LENGTH-OF-SERVICE AWARD. The award was presented by Garland Hardamon, Cooperative Program Manager, Missoula, Montana.

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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