

The National

Cooperative

Observer



Summer 1999

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

Editor: Steve DelGreco

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 of the National Oceanic and Atmospheric Administration, an agency within the Department of Commerce. One of the responsibilities of the NWS is to take meteorological observations which are used to record the climate condition in the United States. The National Weather Service relies heavily on a vast network of cooperative observer volunteers to achieve this objective.

The NWS determines where observations are needed and furnishes standard metrological instruments to individuals who volunteer their time to take a record daily weather observations of the weather. Currently, there are about 8000 published volunteer observation 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 observations. These contributions to the climate record of the United States are invaluable.

The publications 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:

Graphic Support
National Climatic Data Center
151 Patton Avenue, Room 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

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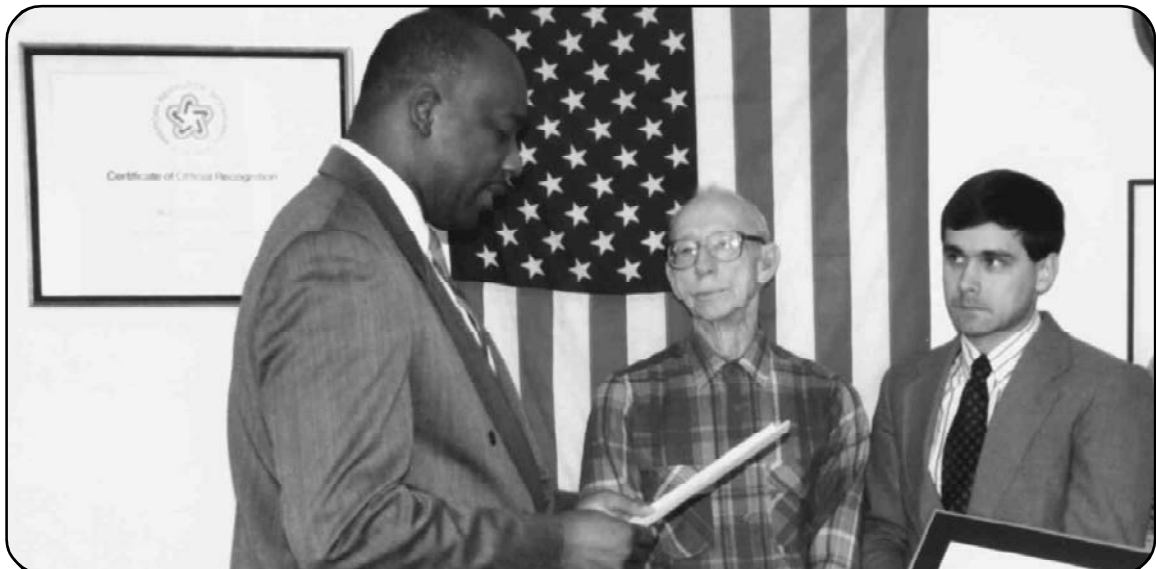
COVER PHOTO: Jack Kelly, (left) Director of the National Weather Service, and South Dakota Senator, Tim Johnson, (second from left) present Mr. and Mrs. Albert Gull with the prestigious Thomas Jefferson Award.

EASTERN REGION

JOHN CAMPANIUS HOLM AWARDS



Mr. John Jones, Deputy Director of the Eastern Region, presents Mr. Ray Diederich, the John Campanius Holm award. Looking on (at left) is Mr. William Comeaux meteorologist in charge of the Cleveland, OH, forecast office. Mr. Diederich is the observer in Elyria, OH.



Mr. William Comeaux, (at left) meteorologist in charge of the Cleveland OH, forecast office presents Mr. James Ruetz (center) the John Campanius Holm award. Looking on is Mr. Brian Mitchill, hydrometeorological technician from the Cleveland office. Mr. Ruetz is the observer in Monpelier, OH.

EASTERN REGION

HELMUT LANDSBERG AWARD



Mrs. Maxine Leach retired after 60 years of service. She has been a recipient of the John Campanius and Thomas Jefferson Awards. Mrs. Leach was presented her award at her home in Philippi, WV, by Paul Gilkerson from the Charleston, WV, forecast office.

BELATED RECOGNITION



Mr. Scott Johns and his faithful companion *Samantha*, were presented their 25 year Length of Service Award in 1996. Presenting the award was Bob Coblentz, Data Acquisition Program Manager of the WFO, Pittsburgh, PA.

EASTERN REGION



A Fifty Year Institutional award was presented to the Dennison, OH. Water works by Theresa Rossi meteorologist in charge of the Pittsburgh, PA forecast office. Accepting are Mr. John Rypsen, District Superintendent, and Steve Thompson, Supervisor of the Waste Plant.



Mr Kenneth Pearson, Assistant Superintendent of the City of Fairmont Water Dept, in WV. accepts a 50 year Institutional Award from Theresa Rossi, meteorologist in charge of the Pittsburgh, PA forecast office.



Theresa Rossi Meteorologist in Charge of the Pittsburgh PA. forecast office presents Wilma Priode, observer from Cooperdale, Oh with a 45 year Length of Service Award. Attending, Bob Coblentz (right) is the DAPM from the Pittsburgh office.

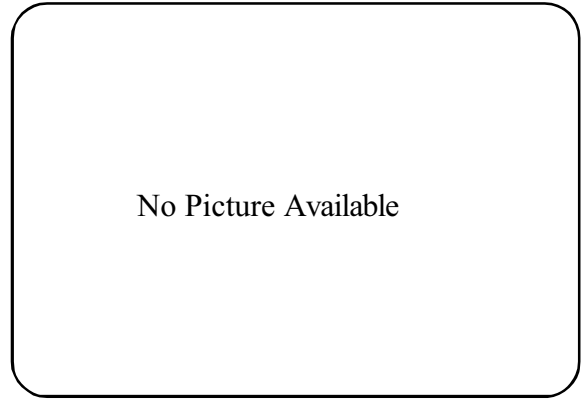


Mr. Jim Philips, observer from Parsons, WV., accepts a 35 year length of service award from Theresa Rossi, Meteorologist in Charge of the Pittsburgh, PA forecast office.

EASTERN REGION



Mr. David Helsel, observer from Parker, PA. received a 30 year length of service award from Theresa Rossi, Meteorologist in Charge of the Pittsburgh forecast office.



Mr. Edward Hikkelsen from Ashtabula, OH. received a 40 year length of service award from Brian Mitchell, a hydrometeorological technician from the Cleveland, OH. forecast office.



Chief of Security, Bill Gillespie and Officer Terry Ribble accept a 25 year Institutional Award presented to the Snowshoe Security Department. Paul M. Gilkerson, hydrometeorological technician from the Charleston, WV office presented the award.



Mr. Richard F. Sanborn received his 25 year length of service award for observations taken in Epping, NH. Mr. James F Brown, Cooperative Program focal point presented the award.



Mr. Tony Spicer (left), Data Acquisition Program Manger from the Cleveland, OH. forecast office, present a 25 year Institutional Award to the Mount Vernon Wastewater Plant. Accepting the award is Mayor Richard Mavis, Steve Howard and Judith Scott.

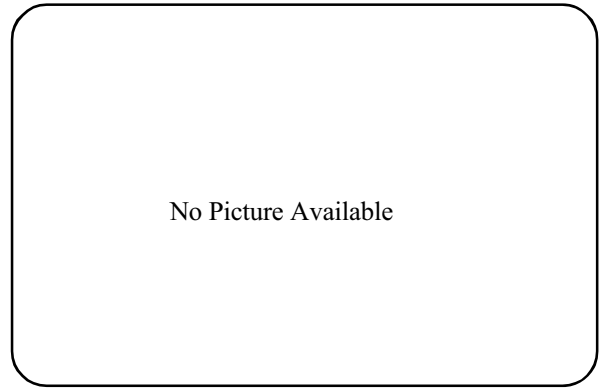


Mr. Brian Mitchell, from the Cleveland, OH. forecast office, presents a 25 year Institutional Award to Ranger Rebecca Hinkle from the National Wildlife Refuge in Ottawa, OH.

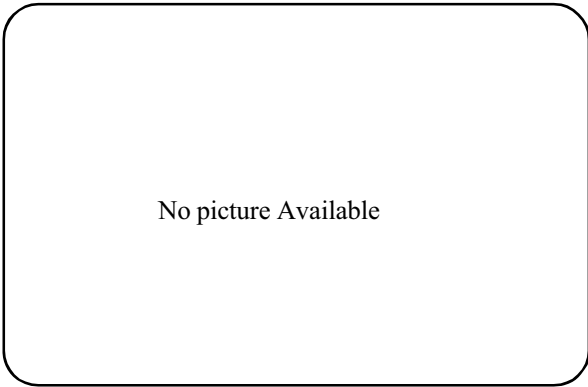
EASTERN REGION



Mr. Carl Diedrick, of Eyria, OH. received his 25 year length of service award. The award was presented by Brain Mitchell from the Cleveland, OH. forecast office.



Mr. Ronald Diehl, received his 25 year length of service award for his observing in Penfield, OH. The award was presented by Mr. Brian Mitchell from the Cleveland forecast office.



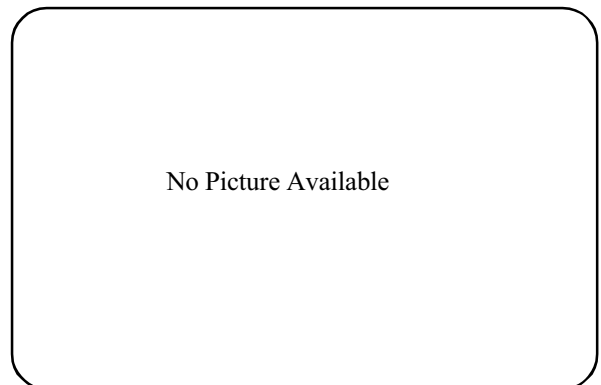
Brian Mitchell, of the Cleveland forecast office, presented Mr. Jerold Seabold his 25 year length of service award. Mr. Seabold observing site is in Lagrange, OH.



Mr. Harold Tegtmeier, from Congress, OH. (right) received his 25 year length of service award from Brian Mitchell.



Mr. Briggs Bunker (center) reached his 25th year as a Cooperative Observer in Nov. 1998. His was presented his award for his work in North Conway, NH. by James Brown and Thomas E. Berman from the Gray, ME forecast office.



Brain Mitchell, from the Cleveland forecast office, present a posthumous 25 year length of service award to her husband, Mr. Giles McClafin. Ms. Helen McClafin recorded the weather in Ruggles, OH.

EASTERN REGION



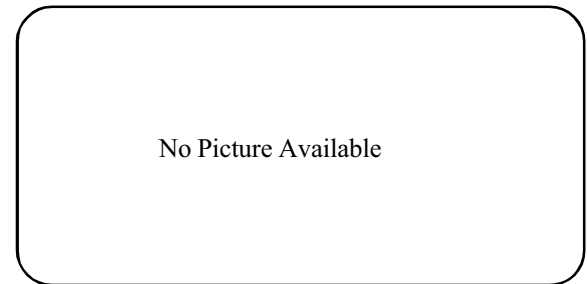
Mr. Randall Hatfield, (left) from the Charleston, WV forecast office, presents Charles B. Jarrell with a 25 year length of service award. Mr. Jarrell's observing site is in Dry Creek, WV.



Mr. Norman Hanko, (left) from Florence, OH, receives his 25 year length of service award. Presenting the award is Brian Mitchell from the Cleveland, OH, forecast office.



Mrs. Jesse Mae Cheeks, receives a 30 year length of service award from Randy Hatfield. Mrs. Cheeks observing site is in Griffithsville, WV.



Mrs. Marie Udell, was presented with a 15 year length of service award for her work in Andover, OH. Brian Mitchell, from the Cleveland forecast office made the presentation.



Walter Wayne Browning received his 10 year length of service award for his observing site in Clintwood, WV.



Theresa Rossi, (right) presents a 15 year length of service award to Bea Croscu, observer in Oakland, MD.



Mr. Wayne Bright, accepts a 10 year length of service award in Webster Springs, WV., from Charles Gilkerson, from the Charleston WSO.

EASTERN REGION



Mrs. Donna Boggs, observer from Hacker Valley, WV., received her 10 year length of service award. The award was presented by Mr. Paul M. Gilerson from the Charleston forecast office.



Pike Island, WV. observer Joe McPherson, is presented with a 10 year length of service award by Theresa Rossi from the Pittsburgh, PA forecast office.



Frank and Dawna Perkins, of Milo, ME., accepted a 10 year length of service award. Presentation was by Jim Donahue, from the Gray, ME. WFO.



Albert Locke, observer at Long Falls Dam, ME. accepted a 10 year length of service award from Jim Donahue, of the Cray, ME. WFO.



Sam and Mary Sidote received their 10 year length of service award for their observation efforts at Welch, WV. The award was presented by Randall Hatfield and Marshall Monroe.



Mr. George M. Aylor, from Weston, WV., received his 15 year length of service award. The award was presented by Paul M. Gilberson from the Charleston, WV. forecast office.



Theresa Rossi, Meteorologist in Charge of the Pittsburgh, PA. forecast office, presents Mike Docalla, from Washington, PA. with his 15 year length of service award.



Mary Ann Powell, (right) observer from Mannington, WV., receives her 15 year length of service award from Theresa Rossi.

CENTRAL REGION

EDWARD H. STOLL AWARD



The NWS Northern Indiana office presented the Stoll Award to Ray Burkholder (center) from Pandora, OH. The award was presented by Michael Sabones, Meteorologist in Charge of the Syracuse, IN office, for 50 years of observations. Mrs. Burkholder looks on at the left.



Doug New, observer at Sugarloaf Reservoir, CO, accepted a 50 Year Institutional Award on behalf of the US Bureau of Reclamation, ECPO - Twin Lakes Area Branch.



Milo Born, observer, Chaska, MN, received an individual 50 Year Length of Service Award. Pictured, left to right, Don Essler, CPM, Chanhassen, Greg Spoden, State Climatologist, Belinda Jensen, *KARE* 11 TV, Milo Born, Craig Edwards, Meteorologist in Charge, Chanhassen, and Dr. Mark Seeley, University of Minnesota.



Mr. and Mrs. Faulker received a 40 Year Length of Service Award for their observation program in Centerville, MO.

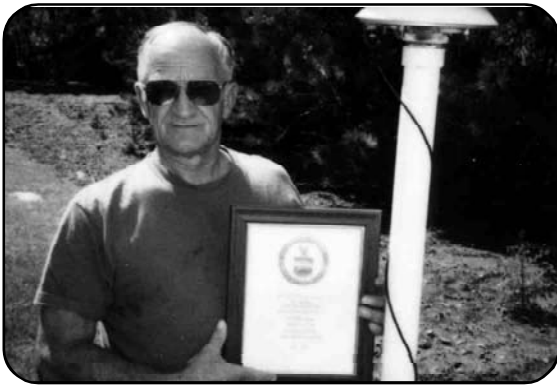
CENTRAL REGION



Mr. and Mrs. Marburger received at 35 Year Length of Service Award for the observation program at Mt. Olive, IL.



The NWSO, Grand Junction, CO, presented Mr. and Mrs. Dan H. Knott with a 35 Year Length of Service Award.



Mr. Curtis A. Hemstad, observer, Stanley 3NNW, ND, received at 30 Year Length of Service Award. The award was presented by Vern Roller, Cooperative Program Manager, NWSFO, Bismark.



Mr. Jack Hendrick, received a 25 Year Length of Service Award for his observation program in Salem, IL.



Clifford R. Jordan, observer, Great Bend, KS, received a 20 Year Length of Service Award , from Michael J. Rosner Data Acquisition Program Manager, NWSO, Wichita.



Beverly Ditty, observer, Virgil, KS, received a 20 Year Length of Service Award, from Leon F. Wasinger, Cooperative Program Manager, Wichita, KS.

CENTRAL REGION



Mr. John Ey, observer, Lemon Dam, CO, was presented with a 20 year Length of Service Award by the NWSO, Grand Junction, CO.



Don Essler, Cooperative Program Manager, Chanhassen, MN, presented Mr. Hank Chan, of the Alexander Water Treatment Plant, with a 20 Year Length of Service Award.



Mr. Chuck Hagen, observer with the Hess Gas Plant, station Tioga 1E, was presented with a 20 Year Length of Service Award. Presenting the award was Vern Roller, Cooperative Program Manager, NWSFO, Bismark, ND.



Raymond and Lois Blegen, observers at station Keene 3S, received a 20 Year Length of Service Award, from Vern Roller, Cooperative Program Manager, NWSFO,



The Hillsboro IL Fire Department was presented with a 20 Year Length of Service Award.



Accepting a 20 Year Length of Service Award are Judy and Mark Wehrspans for their observation program at Lakeside Laboratory Facility near Milford, IA. The award was presented by Meteorologist in Charge, Tim Masters and Data Acquisition Program Manager, Don Morin of NWFO Sioux Falls, SD.

CENTRAL REGION



Russel Miller, observer, Centerville, IA, received a 20 Year Length of Service Award.



Linda Noakes, observer, Erie, KS, received a 15 Year Length of Service Award from Leon F. Wasinger, Cooperative Program Manager, NWSO, Wichita, KS.



Timothy J. Matheisen, observer, Benson, MN, received at 15 year Length of Service Award from Don Essler, CPM, Chanhassen, MN.



Jodi and Donald Link, observers, Ridgeland 1 NNE, MN, received a 15 year Length of Service Award from Don Essler, Cooperative Program Manager, Chanhassen, MN.



Donna Kassela, observer, Weyerhauser 2SSE, MN, received a 15 year Length of Service Award from Craig Edwards, Meteorologist in Charge, Chanhassen,



Observer Darlene Smith of station Luray, KS, was presented a 15 yr Length of Service Award by Michael J. Rosner, Data Acquisition Program Manager, Wichita, KS.



John Wirkler, gauge reader at Little Sioux River, and COOP observer at Spencer 1N, IA, received a 15 year Length of Service Award from Don Morin, Data Acquisition Program Manager, NWSFO, Sioux Falls, SD.



Hydrologist Jack Bruns, (r) presents Arthur F. Denkmann Jr, gauge reader, St. Louis Gads Bridge, MO, with a 15 year Length of Service Award.

CENTRAL REGION



Don Barrett, observer, Whitestown, IN received at 15 year Length of Service Award from Ed Terrell and Roger Kenyon WFO Indianapolis, IN.



Mrs. Rosemary A. Castro, observer, Gateway 1SE, CO, was presented with a 15 year Length of Service Award.



Mr. John C. Marty, observer, Kendallville, IN, was presented with a 15 year Length of Service Award.



Leonard Vorba, observer in Traer, IA, received at 15 year Length of Service Award.



John and Ann Tracy, observers of river gauge on Perry Creek and COOP station Sioux City, IA, received a 10 year Length of Service Award from Don Morin, NWFO, Sioux Falls, SD.



Suzanne Messerli of Coop station, Highland, IL received a 10 year Length of Service Award from Mary Rundel of NWSFO, St. Louis, MO.



Kenneth A. Kotval, observer, Vesta, MN, received a 10 year LOS Award from Don Essler, CPM, Chanhassen, MN.



Peggy Bewley, observer, Thrall 4S, KS, received a 10 year Length of Service Award from Leon F. Wasinger, CPM, Central Region Headquarter, Wichita, KS.

CENTRAL REGION



Mrs. Joyce Lefevre, observer at Maybell, CO, was presented with a 10 year Length of Service Award.



Mr. and Mrs. Coker, observers in Perth, KS, were presented with a 10 year Length of Service Award by Leon F. Wasinger, Cooperative Program Manager, Wichita, KS.



Eddy Woodruff, observer, Monument, CO, received at 10 year Length of Service Award.



Robert Shannon, observer, Kim 10SSE, CO, received at 10 year Length of Service Award.



Philip (Phil) Lebo, observer, Grundy Center, IA, received a 10 year Length of Service Award.



Ed Gray, observer, Salem, SD, received a 10 year Length of Service Award from Data Acquisition Program Manager Don Morin of WFO Sioux Falls, SD.



Eldon R. Johnson, observer, Rockwell City, IA, received a 5 year Length of Service Award.



Keith and Dianne Hanson, observers, Britt IA, received a 5 year Length of Service Award from Brad Fillbach, Hydrometeorological Technician, Des Moines, IA.

CENTRAL REGION

SPECIAL NOTICE



Even rocky ground doesn't slow down Meteorologist in Charge Tim Masters during an Maximum and Minimum Temperature Sensor installation. Here Tim swings the pick with precision to make way for the conduit and cable. The addition of MMTS to the Washta, IA site will enable observer, Dan Zupp to accurately track temperatures in the "Coldest spot in Iowa".



SOUTHERN REGION

THOMAS JEFFERSON AWARD



Mr. Tommie C. Saye, Cooperative Observer in Clarendon, TX, was presented the prestigious Thomas Jefferson Award at a reception in his honor at the Clarendon Community College. Pictured, left to right, Mr. William Proenza, Regional Director, Tommie and Lucy Saye and Mr. Jose Garcia. Mr. Saye has an unbroken record of observations starting in March, 1955.

JOHN CAMPANIUS HOLM AWARD



Mrs. Emmie Rusche was presented the John Campanius Holm Award by MIC, Al Dreumont (right) and Hydrometeorological Technician, Daryl William from the San Antonio/Austin NWSO. Mrs. Rusche is from Prairie Mountain, TX and as been an observer since October 1962.

SOUTHERN REGION

JOHN CAMPANIUS HOLM AWARD



Mr. James E. McCravy (Right) of Hanceville, AL was presented the John Campanius Holm Award by David C. Wilfing, the Data Acquisition Program Manager from the from the National Weather Service Office in Birmingham.



The Shreveport NWSFO presented Mayrene Lewis the prestigious John Campanius Holm award. Pictured , left to right, are Marion Kuykendall, Data Acquisition Program Manager and Lee Harrison, Meteorologist in Charge, and Steve Griffin, Hydrometeorological Technician, of the Shreveport office. John Duxbury from Southern Region Headquarter in Fort Worth, TX, looks on.

SOUTHERN REGION

JOHN CAMPANIUS HOLM AWARD



Mrs. Zonelle Jackson, observer for the community of Seymour, TX, was presented the John Campanius Award in recognition of her service the Cooperative Observer Program. Pictured (left to right) are Mr. Tom Grayson, Southern Region Headquarters, Mrs. Jackson, and Dennis McCarthy of the forecast office in Norman, OK.



Mr. William B. Crow (left) was presented with the prestigious John Campanius Holm Award by David C. Wilfing, Data Acquisition Program Manager, NWSFO, Birmingham, AL.

SOUTHERN REGION

EDWARD H. STOLL AWARD



Mr. Thomas Logan shown receiving the Edward H. Stoll Award for 50 years of service in Mayfield OK. Presenting the award was Hydrometeorological Technician Carl Wilkins. Mr. Logan until recently, served as the Postmaster, general store and service station owner, and unofficial Mayor of Mayfield.



Mr. James O. Hardin, (left) accepts a 45 Year Length of Service Award from Mr. Carlos Garza Jr, Meteorologist in Charge, NWSFO, Peachtree City, GA.



A 45 Year Length of Service Award was presented to Mr. Wayne Wolfe, (right) from Lehigh, OK, by Jonny Roberts, Hydrometeorological Technician, NWSFO, Norman OK.



Clemon G. Clewell (center) accepts a 45 Year Length of Service Award for observations taken in Watonga, OK. Presenting the award were Dennis McCarthy (left) MIC, and Alton Abernathy, Hydrometeorological Technician, NWSFO, Norman, OK.



Grover and Ruth Bayless (center) received a 40 Year Length of Service Award for their observation program in Arnett, OK. Presenting the award were Al Abernathy, (left) Hydrometeorological Technician, and Dennis McCarthy, Meteorologist in Charge, Norman, OK.

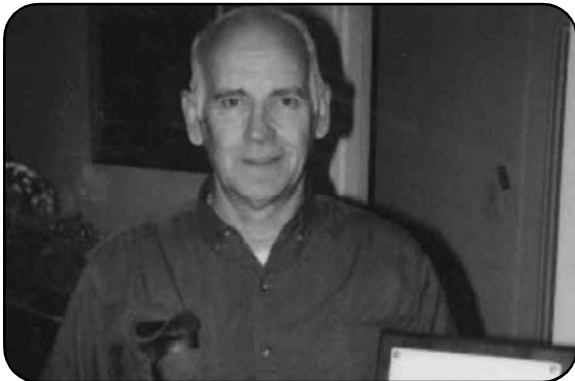
SOUTHERN REGION



Mr. Ralph McKinney (left) of Franklin, TX, was presented a 30 Year Length of Service Award by Hydrometeorological Technician Walt Livingston, NWSFO, Fort Worth.



Fern White, San Jon, NM, receives her 30 Year Length of Service Award from Hydrometeorological Technician, Robert Wisniewski, WFO Albuquerque, NM.



Clifford Buellesfeld, COOP observer for Blackwell, OK, was presented a 25 Year Length of Service Award by Alton Abernathy, Hydrometeorological Technician, NWSFO, Norman, OK.



The City of Canyon, TX, Fire Department, received a 25 Year Length of Service Award. Receiving the award, on the left, were Mike Kelly, Jeania Noggler and Joe Rice. The award was presented by Jose Carcia, Meteorologist in Charge, NWSO, Amarillo, TX.



Ms. Viola Hollowell, Madison 1NW, AR, received her 25 year Length of Service Award from Zwemer Ingram, Data Acquisition Program Manager, NWSFO, Memphis, TN.



Mr. Tim Chewning, (left) and Bill Green accept a 25 Year Length of Service Award for the City of Venice Water Department. Presenting was Colleen Rhea, Data Acquisition Program Manager, NWSO, Tampa Bay, FL.

SOUTHERN REGION



Mr. George Oller, COOP observer for Billings, OK, accepts a 25 Year Length Service Award, from Alton Abernathy, Hydro-meteorological Technician, NWSFO, Norman, OK.



Ralph D. King accepts a 25 Year LOS Award for the City of Selmer, TN, Utility Division. The award was presented by Jack Jackson, DAPM, NWSFO, Memphis, TN.



Jack and Louise Shaffer, observers at Jefferson, OK, were presented a 20 Year Length of Service Award by Alton Abernathy, Hydrometeorological, Technician, NWSFO, Norman, Ok. Mr. Shaffer could not attend as it was the first day of deer season!



Mr. Bill Favero, COOP observer, Avon Park Flying Service, accepts a 25 year Length of Service Award, from Colleen Rhea, Data



Mr. Tom Clarke of Lakeland, FL, accepts a 20 Year Length of Service Award from Colleen Rhea, Data Acquisition Program Manager, NWSO, Tampa Bay, FL.



Mr. Donald Nelson of Bushnell, FL, accepts a 20 Year Length of Service Award, from Colleen Rhea, Data Acquisition Program Manager, NWSO, Tampa Bay, FL.

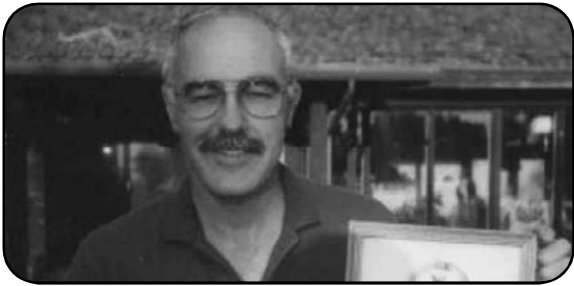
SOUTHERN REGION



Mr. Stephen S. Aurty, Coleman, TX, receives a 20 Year Length of Service Award from Ms. Eva Mullen, Hydrometeorological Technician, WFO, San Angelo, TX.



Elaine Cunningham, of Hulhall, OK, accepts a 20 Year Length of Service Award from Alton Abernathy, Hydrometeorological Technician, NWSFO, Norman, OK.



A 15 Year Length of Service Award was presented to Bob Burgtorf, Shattuck, OK, from Alton Abernathy, Hydrometeorological Technician, NWSFO, Norman, OK.



Diana Rush, Ragland, NM, receives her 15 Year Length of Service Award from Robert Wisniewski, Hydrometeorological Technician, WFO, Albuquerque, NM.



Mr. Edwin Neisser (left) of Victoria 9ESE, TX, accepts a 15 Year Length of Service Award from Dave Davenport, Data Acquisition Program Manager, NWSO, Corpus Christi, TX.



May Carson, Cornuda SVC Station, TX, was presented a 15 Year Length of Service Award, by Roger Mead, Hydrometeorological Technician, NWSO, El Paso, TX.



Ms. Diane Link of Dalhart, TX, accepts a 10 Year Length of Service Award from Data Acquisition Program Manager, Billy Beams, NWSO, Amarillo, TX.



Mr. Jesse Jackson of Silver Valley, TX, receives a 15 Year Length of Service Award, from Ms. Eva Mullen, Hydrometeorological Technician, WFO, San Angelo, TX.

SOUTHERN REGION



Doyle Sigman, left, of Glenwood AR, receives a 10 Year Length of Service Award from Jimmy Russell, Data Acquisition Program Manager, NWSO Little Rock, AR.



Kay Scarbrough of Sierra Blanca, TX, accepts a 10 Year Length of Service Award, from Bob Cooper, Data Program Acquisition Program Manager, NWSFO, El Paso, TX.



Virginia Been, Hachita, NM, accepts a 10 Year Length of Service Award, from Roger Mead, Hydrometeorological Technician, NWSFO, El Paso, TX.



A 10 year Length of Service Award was presented to Mr. Bill Lott, COOP observer for the community of Perkins, OK. The award was presented by Alton Abernathy, Hydrometeorological Technician, from NWSFO, Norman, OK.

WESTERN REGION

JOHN CAMPANIUS HOLM AWARDS



The John Campanius Holm Award was presented to Mrs. Margaret Edward of Denton MT by Ken Mielke, Meteorologist in Charge, and Mike Chamberlain, Data Acquisition Program Manager both of the NWSFO Great Falls, MT. Mrs Edwards is recognized for over 32 years of service in the COOP program



Mr. Lawrence J. Mather (center) observer, Wisall 8 ENE, MT, was presented the John Campanius Holm Award. Deputy Regional Director, Western Region (right) Jim Campbell presents the award while Bob Johnson COOP program manager from the Billings, MT. NWSO looks on.

WESTERN REGION

JOHN CAMPANIUS HOLM AWARD



A John Campanius Holm Award and a 35 year Length of Service Award, were presented to Mrs. Betty Flechsig, (center) observer, Simpson 6NW, MT. Presentation was made by Jim Campbell, Deputy Director Western Region. (right) Mr. Walter Flechsig looks on at the left.



Frank Kolar (center), observer, Raynesford 2NNW, MT. was presented the John Campanius Holm Award. The award was presented by Ken Mielke (left) Meteorologist in Charge, and Ed Kurdy, Cooperative Program Manager, both from NWSFO Great Falls, MT. Mr. Kolar was recognized for over 25 years service as a Cooperative Observer.

WESTERN REGION

100-YEAR INSTITUTIONAL AWARD



The National Weather service presented a 100 year Institutional Award to the power plant and maintenance staff of Wyoming State Hospital in Evanston on May 13th. The award was presented by Jim Campbell, Western Regional Deputy Director (center) and Bill Adler (left) MIC of the Salt lake forecast office. Accepting is staff member Don Rosler. Owen Martin looks on from behind. Also present, but not pictured were, hospital staff members Bryon Harmon, Rick Makris, and Dan Heiny.

75 - YEAR INSTITUTIONAL AWARD



A 75 year award was presented to Ray Nickless, (left) Service Hydrologist, NWSO Missoula, MT to Ben Adams, Flathead Project, St. Ignatius MT.

75 - YEAR INSTITUTIONAL AWARD



A 75 year Institutional Award was presented to Zion National Park, UT, by Vickie Nadolski, (left) National Weather Service Western Region Director. Accepting the award is Superintendent Don Falley.

75 - YEAR INSTITUTIONAL AWARD



A 75 year award was presented to Oregon State University for it's weather station at Mid-Columbia Experiment Station in Hood River , OR. In addition, Louis Cervantes received a individual 10 year award for his work at the Hood River-Tucker Bridge station. Pictured from left to right are Clark F. Stewart, superintendent, and Louis Cervantes.

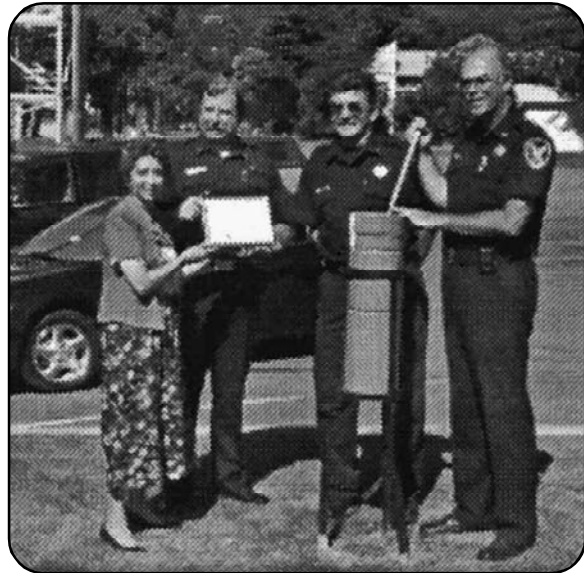
WESTERN REGION

75 - Year Institutional Award



Accepting the award (center-left and right) Jeff Schumacker and Nibbs Menard for the City of Wapato, WA. Presenting the award were Bruce Bauck, (right) Meteorologist-in-Charge, and Ann Adams, Cooperative Program Manager from NWSO Pendleton.

75 - Year Institutional Award



The Ukiah Fire Department received a 75 Year Institutional Award. The presentation was made by Nancy Dean (left), Meteorologist in Charge at the NWSO in Eureka, CA. Shown receiving the award are from left, Chief Mark Whittaker, Chief Dean Hutton, and Chief Bruce Evans. Also attending was Candice Horsley, City Manager for Ukiah.

The HELMUT E. LANDSBERG AWARD



The Rufener Family of Grizzly, OR received the award for 60 years of service by three generations. Accepting, from left to right, Mike Rufener, Scott Rufener, Ann Martin, Hohn Rufener, Betty (Refener) Fretheim, Sam Rufener, and George Refener Sr. Presenting were Vickie Nadolski, Director of the Western Region, and Bruce Bauck MIC. Pendleton.

EDWARD H. STOLL AWARD



Mr. George S. Hatch, observer, Koosharem, UT received his award for 50 years of service. The award was presented by Jim Campbell, WR Deputy Director. The presentation was witnessed by NWS officials and Mr. Hatch's four daughters at a local elementary school.

WESTERN REGION

50 - YEAR INSTITUTIONAL AWARD



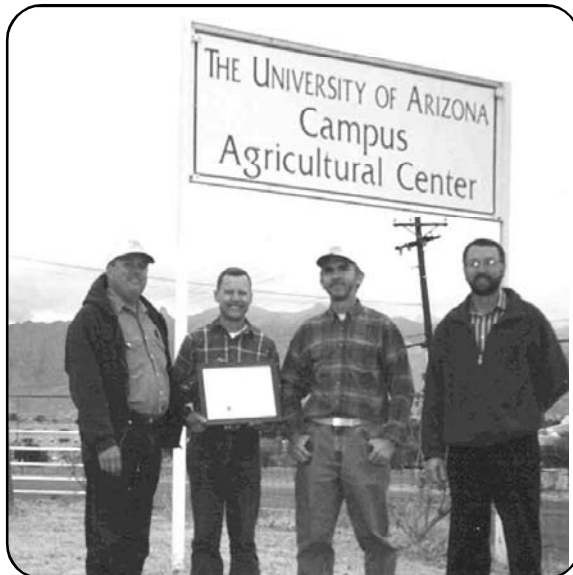
Employees of the U.S. Fish and Wildlife Service, Camas National Wildlife Refuge, Hamer 4NW, ID., receive their award from Mark Mollner (left), Meteorologist in Charge, Pocatello. Accepting the award (left to right) are Farrel Downs, Sid Brown, and Gerald Deutscher.

50 - YEAR INSTITUTIONAL AWARD



Jerry Piering, Unit Manager/Forester and Jennifer Stevenson, Office Specialist from the Oregon State Board of Forestry accept the award from Stephen Todd (right) Meteorologist in Charge of the NWSFO Portland.

50 - YEAR INSTITUTIONAL AWARD



The award was presented to The University of Arizona Campus Agricultural Center in Tucson, AZ. Presenting the award is Meteorologist in Charge Glenn Sampson, from the Tucson NWSO. Shown are from left, Ken Kriederman, Farm Supervisor, Kevin Kalthoff, Farm Mechanic, Peter Lese, Resident Director and Glen Sampson

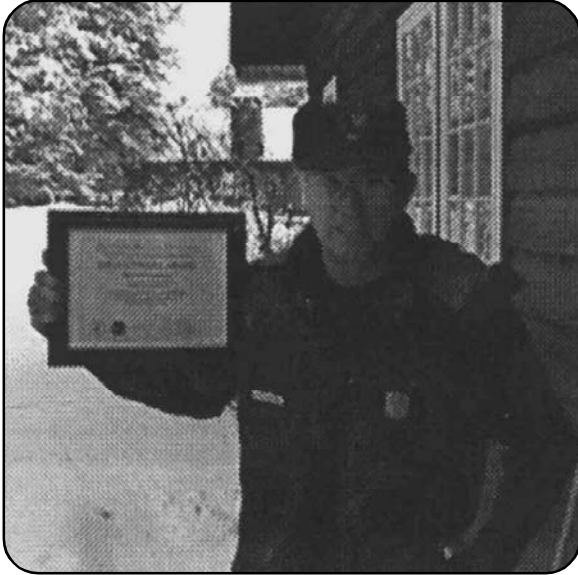
50 - YEAR INSTITUTIONAL AWARD



The Banta-Carbona Irrigation District received an award for 50 years of observing. Accepting the award were Mr. David Weisenberger, left, and David McNair.

WESTERN REGION

50 - YEAR INSTITUTIONAL AWARD



Dick Mattson accepts a 50 year institutional award for the U.S. National Park Service at East Glacier, Montana.

50 - YEAR INSTITUTIONAL AWARD



The Nevada State Highway Department at Carvers, receives a 50 year institutional award. Pictured from left to right, Jeromie Sorhouet, Ted Ramos, Larry Jensen, Meteorologist in Charge, Las Vegas, and Mitch Wiedmer.

50 - YEAR INSTITUTIONAL AWARD



Neil Ligher (left), Senior Hydrographer for Southern California Edison Co. is shown receiving a 50 year institutional award from Larry Jensen Meteorologist in Charge, NWSO Las Vegas.

SPECIAL SERVICE AWARD



James R. Learn (left) observer, Story, WY, was presented with a Special Service Award by Bob Johnson, Cooperative Program Manager, NWSO Billings, MT.

WESTERN REGION



SPECIAL SERVICE AWARD

A Special Service Award, for outstanding service since September, 1962, was presented to the Whitman National Historical Site in Whitman Mission, WA. Accepting award were (center-left and right) Diana Elder and Francis T. Darby. Presenting the award were Bruce Bauck, (right) Meteorologist in Charge, and Jim Zdrojewski, Data Acquisition Program Manager. Pendleton, OR



Bill Etter (center) of Pilot Rock, OR, accepts a 45 year Length of Service Award. The award was presented by Vickie Nadolski, Western Region Director and Bruce Bauck, Meteorologist in Charge, NWSFO Pendleton.



Irvin Hutchison (center), observer, Chester, MT, accepts a 40 year Length of Service Award from Mike Chamberlain (left) Data Acquisition Program Manager, and Ed Kurdy, Cooperative Program Manager, both from NWSFO Great Falls, MT.



A 40 year LOS Award was presented to Mr. Joe Cabral, Jr, and his wife Barbara from the Salsipuedes Gaging Station, CA by Dennis Tussey and Bruce Rockwell from the NWSFO Oxnard, CA.



A 40 Length of Service Award was presented to Lila Noble, Leadore, ID, by Ray Nickless, Service Hydrologist, Missoula, MT.

WESTERN REGION



George Birtic (left) accepts a 45 year Length of Service Award for his late father Frank Birtic. The award was presented by Bob Diaz, Meteorologist in Charge of NWSFO Billings, MT.



Mr. Edmund R. Sommerfeld (left) COOP observer at Power 6SE, MT, receives a 45 year Length of Service Award from Jeff Johnson, NWSO Great Falls, MT.

NO PICTURE AVAILABLE

Mr. John Jonutis, observer, Mizpah 4 NNW, MT, was presented with a 40 year Length of Service Award, and a personal letter of congratulations from John J. Kelly, Jr., Director of the NWS. The award was presented by Bob Diaz, Meteorologist in Charge, and Bob Johnson, Cooperative Program Manager, NWSO Billings, MT.



Tom and Maurine Mader, observers at Biddle 8SW, MT, were presented their 35 year Length of Service Award by Bob Johnson (right) COOP Program Manager.

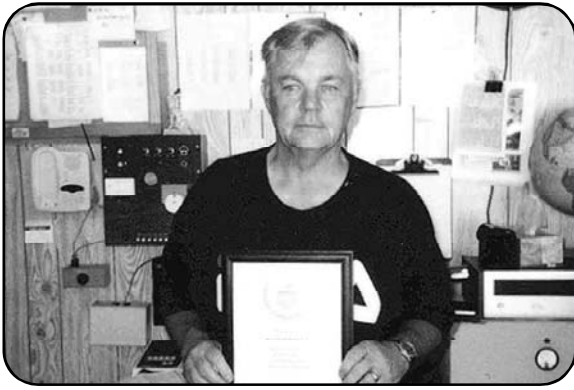


At a dinner in their honor, a 35 year Length of Service Award was presented to Jim and Ellie Bowers, observers, Moorhead 9 NE, MT. Bob Diaz (left) Meteorologist in Charge, NWSO Billings, Mt., presented the award.

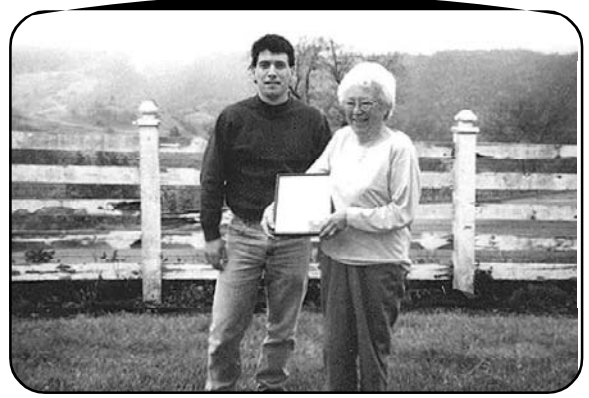


Mr. James Wood, Jr. (center), observer, Loma 1WNW, MT, is shown receiving a 35 year LOS Award. Presentation was made by Ed Kurdy (left) CPM, and Mike Chamberlain (right), DAPM, from NWSFO Great Falls.

WESTERN REGION



A 35 year Length of Service Award was presented to Ralph Mortensen, observer at Blowhard Mountain, UT.



Edna Moore Moore, observer, Kneeland 10 SSE CA, received a 35 year Length of Service Award from Jim Fahey, CPM, Eureka, CA.



Cooperative observer Betty Flechsig receives a 35 year Length of Service Award at her home 6 miles northwest of Simpson, MT.



Bruce Bauck, MIC at NWSO Pendleton presents Roberta Keegan, Ashwood 2 NE, OR., with a 35 year Length of Service Award.



Ms. Marian L. Dancer received a 30 year Length of Service Award for her observations at Wallace, ID. The award was presented by Stan Savoy, NWSO Spokane, WA.



William G. Hofmann, observer Rosalia, WA. received a 30 year Length of Service Award.

WESTERN REGION



Mr. Hugh Hastings (right), Smith River observer for the NWS Office at Great Falls, MT., receives a 30 year Length of Service Award from Service Hydrologist Charlotte Camp. Mr. Hastings lives and ranches eight miles southeast of Ulm, MT.



A 25 year Institutional Award was presented to Alta Power Generation, Daggett Power Plant. Shown receiving the award is Jeff Zumwalt, supervisor of plant operations.



The Del Norte County Sheriff's Office at Fort Dick River, CA. received a 25 year Institutional Award. Accepting the award from Jim Fahney, Cooperative Program Manager Eureka, CA., is Lead Sheriff Maready.



A 25 year Institutional Award was presented to Santa Barbara County Fire Station 41, New Cuyama, CA. Chris Olmstead (right) accepted the award from Dennis Tussey of the NWSFO, Oxnard, CA.



Charles Berna accepted a 25 year Institutional Award for the Santa Margarita Booster Station, CA. The award was presented by Dennis Tussey, Cooperative Program Manager, NWSFO, Oxnard, CA.



A 25 year Institutional Award was presented to observers at the Big Bear Lake Dam, CA, by Brad Doyle, Cooperative Program Manager, NWSO, San Diego. Accepting the award was Ms. Bonn Falkenhayn.

WESTERN REGION



The Esmeralda County Sheriff's Office in Goldfield, NV. received a 25 year Institutional Award. Presenting the award on the left is Larry Jensen, Meteorologist in Charge, NWSO Las Vegas. Shown receiving the award are Sgt. Micki Knight, (center) and Sheriff Ken Elgan.



A 25 year Length of Service Award was presented to the Sun City Fire Station #7, CA, by Richard Stitt, Data Acquisition Program Manager, (right) NWSO San Diego. Accepting the award are Fire Captain Brian Riggs (left) and Menifee Battalion Chief Jim Barron.



A 25 year Institutional Award was presented to Five Star Ranch by Cooperative Program Manager, Brad Adams, NWSO San Joaquin Valley, CA. Ranch owner Frank Coelho, along with Bobbie Kinser (left) and Kathy Cites (right) accept the award.



Employees of the U.S. Forest Service at Ketchum Ranger Station, ID received a 25 year Institutional Award. Shown accepting the award from NWSO Pocatella Meteorologist in Charge, Mark Mollner (left), are Kim Hulla Center and Carrie Wesson. (right)



Mr. Albert Fey (right), observer, Gold Butte 7N, MT, accepts a 20 year Length of Service Award from Ed Kurdy, Cooperative Program Manager NWSFO, Great Falls, MT.



A 25 year Length of Service Award was presented to the Wence family for its COOP station 3SW of Goble, OR. Shown are Robert, (left) and Faith Wence, and Dean Sondag, Cooperative Program Manager, NWSFO, Portland, OR.

WESTERN REGION



A 25 year Institutional Award was presented to the City of Pasco, WA. Accepting the award were city employees (from the left) John Griffin, Tom Cunningham and Sean Bauer.



Idaho Department of Parks employees receive a 25 year Institutional Award for their services at Massacre Rocks State Park. Accepting the award from The NWSO Pocatella Office are, (from the left), Robert Glenn, Liz Turner, Terri Classen, and Tom Coester.

NO PICTURE AVAILABLE

A 25 Length of Service award was presented to Clair Bonsen, Parowan Power Plant, UT.



A 25 year Length of Service Award was presented to Robert Hoppe (left), observer. Townsend 12 ENE, MT, by Ed Kurdy from NWSFO Great Falls, MT.



Mr. Ray J. Hable (left), river observer, Dutton 9NE, MT, was presented a 25 year Length of Service Award by Charlotte Camp, Service Hydrologist, NWSFO, Great Falls, MT.



Richard Hansen (left), observer, Gilford, MT, accepts a 25 year Length of Service Award from Ed Kurdy, Cooperative Program Manager, NWSFO, Great Falls, MT.

WESTERN REGION



Dick and Nancy Taylor received a 25 year Length of Service Award for their observations at Lacrosse, WA. Along with taking daily observations of the weather they also keep track of different varieties of birds that frequent their backyard.



Rev. Willis Buesentiz, observer, Busby, MT, receives a 25 year Length of Service Award. The award was presented by Bob Johnson, Cooperative Program Manager, NWSO, Billings, MT.



Mr. Fred Wix (center), observer, Culbertson, MT, receives a 25 year Length of Service Award from Matt Moorman (right) Hydrometeorological Technician NWSO, Glasgow, MT. Looking on is Mrs. Della Mae Wix.



Mr. Jerry King, (right), observer, Forks 1E, WA, receives a 25 year Length of Service Award from Jim Jones, Data Acquisition Program Manager, NWSFO Seattle, WA. The Forks station is one of the wettest sites in the U.S., averaging nearly 120 inches of rainfall per year.



A 25 year Length of Service Award was presented to Miss Anna Gail Sabados, observer at Blackleaf, MT. Mark Turner, Cooperative Program Manager, NWSFO Great Falls, MT made the presentation.



A 25 year Length of Service Award was presented to Luanna Reed, Badger, CA, by Brad Adams, Cooperative Program Manager NWSO, San Joaquin Valley.

WESTERN REGION



A 25 year Length of Service Award was presented to Foster Rucker (right), Sunriver, OR. Presenting the award is Bruce Bauck, Meteorologist in Charge, NWSO Pendleton.



Cooperative weather observer Arnold Sorenson receives a 25 year Length of Service Award at his station in Kremlin, MT.



Twenty and 10 year Length of Service awards were presented to William McKay Sr. and William McKay Jr. (center) by Andy Bryant, (left) Service Hydrologist, and Paul Crimmins, (right) Data Acquisition Program Manager, NWSO Tucson, AZ. Assisting in the presentation was Hans Hanson, Cooperative Program Manager, Tucson, AZ.



Mr. Joe Vavrovsky, (right) observer at Moccasin Experiment Station, MT, received a 20 year Length of Service Award. Presentation was made by Ed Kurdy, Cooperative Program Manager, Great Falls, MT.

NO PICTURE AVAILABLE

A 20 year Length of Service Award was presented to Larry Stahley, Beaver Canyon,

NO PICTURE AVAILABLE

David Cameron, observer, Cascade 20 SSE, MT was presented a 20 year Length of Service Award by Ed Kurdy, Cooperative Program Manager, Great Falls, MT.

WESTERN REGION



Cooperative Weather Observer Malvin Merja, of station Sun River 4S, receives a 20 year Length of Service Award.



A 15 year Length of Service Award was presented to Richard Reisenauer (right) Anaconda, MT, by Ray Nickless, Hydrologist at Missoula, MT.



A 15 year Length of Service Award was presented to Jerry Benson and Rick Carlson (left and right), Plaints, MT, by Dave Goens, Meteorologist, t Missoula, MT.



A 15 year Length of Service Award was presented to Richard H. Anderson (left) , observer, Millegan, MT. The award was presented by Ed Kurdy, Cooperative Program Manager, NWSFO, Great Falls, MT.



Ed Bandel, observer, Carter 14W, MT, accepts a 15 year Length of Service Award from Ed Kurdy, Cooperative Program Manager, NWSFO, Great Falls, MT.



Albert Green (left) observer, Harlen 4W, MT, was presented a 15 year Length of Service award by Ed Kurdy, NWSFO, Great Falls. Shortly after the presentation, Mr. Green passed away, and his brother, John Green, (right) has taken over as observer.

WESTERN REGION



Mr. Warren G. Harding, observer, Simms 1 NE, Mt, accepts a 15 year Length of Service Award from Charlotte Camp, Service Hydrologist, NWSFO, Great Falls, MT.



John L. Stoner, (right) observer, Townsend, MT, accepts a 15 year Length of Service Award from Ed Kurdy, CPM, NWSFO, Great Falls, Mt.



A 15 year Length of Service Award was presented to Jeanne Force, observer at Modena, UT.



Leland C. Adams III, observer, Downieville, CA is shown receiving a 15 year Length of Service Award.



Ben Borsoff (right), Strawberry Valley, CA, receives a 15 year Length of Service Award from Angus Barkhuff, CPM, NWSO, Sacramento, CA.



Carol Sluggett, observer, Valentine, MT, accepts a 15 year Length of Service Award from Ed Kurdy, CPM, Great Falls, MT.



Willard Tonne, and his wife Nancy, observers, Staford, MT, accept a 15 year Length of Service Award from Ed Kurdy, CPM, Great Falls, MT.

WESTERN REGION



A 10 year Length of Service Award was presented to Joan McGarvey, observer, Medicine Lake National Wildlife Refuge at Medicine Lake, MT. Presenting the award is Matt Moorman, Hydrometeorological Technician, NWSO, Glasgow, MT.



Mr. Renell Weeks (right) COOP observer at Swan Valley 2E, ID, is shown receiving a 10 year Length of Service Award from Mark Mollner, Meteorologist in Charge, NWSO, Pocatella, ID.



Robert and Chris Schomer are shown receiving a 10 year Length of Service Award for their observations at Fort Bragg SN, CA. The award was presented by Al Puffer, Data Acquisition Program Manager, NWSO, Eureka, CA.



Dan Burgess (left), observer at Jorday 23ENE, MT, receives a 10 year Length of Service Award from David Secora, senior meteorologist at NWSO Glasgow, MT. In the background is Mr. Burgess's ranch, which is the size of Washington, D.C.

NO PICTURE AVAILABLE

Robert S. Miller, observer, Menard 3NE, MT, accepts a 10 year Length of Service Award from Ed Kurdy, Cooperative Program Manager, NWSFO, Great Falls, MT.



Bob and Candy Estill, observers, Lima, MT, accept a Service Award from Ed Kurdy.

WESTERN REGION



Mr. Bruce Peterson (right), observer, Alder 17S, MT, accepts a 10 year Length of Service Award, from Ed Kurdy, Cooperative Program Manager, NWSFO Great Falls, MT.

NO PICTURE AVAILABLE

William Craig, observer, Millegan, MT, accepts a 10 year Length of Service Award from Ed Kurdy, Cooperative Program Manager, Great Falls, MT.

NO PICTURE AVAILABLE

Valerie Thompson, observer, Winifred, MT, accepts a 10 year Length of Service Award from Ed Kurdy, Great Falls, MT.



Jacque Bucklin (right) river observer, ULM 6E, MT, accepts a 10 year Length of Service Award from Charlotte Camp, Service Hydrologist, NWSFO, Great Falls, MT.



Alan and Rachel Weaver, observers, Warrick 2NW, MT, accepts a 10 year Length of Service Award from Ed Kurdy, Great Falls, MT.



A 10 year Length of Service Award was presented to Rebecca Mackintosh, observer, Hiko, NV.

WESTERN REGION



A 30 Year Length of Service Award was presented to Mrs. Donald W. Wolf, observer, San Miguel Wolf Ranch, CA, by Dennis Tussey, Cooperative Program Manager, National Weather Service Forecast Office, Oxnard, CA.



Mrs. Collen Ingersoll, observer, Rogers Pass 9NNE, MT, was presented a 10 year Length of Service Award by Ed Kurdy, Cooperative Program Manager, Great Falls, MT.

ALASKAN REGION

75 YEAR INSTITUTIONAL AWARD



McKinley National Park received its 75 Year Award on August 24th. From left to right, Senator Raygor, Deputy Director of the Alaskan Region, Jim Hunter, Surface Program Manager Alaskan Region, Lee Kelly MIC, WSFO, Fairbanks, Russ Wilson, acting Deputy Superintendent, Denali National Park, holds the award.



John Borg, observer at Eagle, Alaska, received his 30 year Length of Service Award from Tonly Davis (right) HMT/CPM at WSFO Fairbanks.

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 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 degrees 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 observation 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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