

The National Cooperative Observer Newsletter



WINTER 1990

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EASTERN REGION

SOUTHERN REGION

CENTRAL REGION



WESTERN REGION

ALASKA REGION

PACIFIC REGION

noaa NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL WEATHER SERVICE

ABOUT THE COVER: Washington National Cathedral began with Pierre l'Enfant's vision for "a great church for national purposes" in his 1791 Plans for the City of Washington. Now that cathedral stands completed, participation in its life and mission to grow - as "a House of Prayer for all People." Last year (1989), a greater number of visitors and worshippers (more than 600,000) came to the cathedral than ever before.

On Saturday, September 29, 1990, the final stone was set at Washington National Cathedral, culminating a building program that began more than 80 years ago (1907).

This beautiful panorama of the Nation's capital depicts several land marks: (1) The Congress, (2) Pavillion, (3) George Washington Monument, (4) The White House site (invisible), (5) Jefferson and (6) Lincoln Memorials, (7) "14th Street" bridge across the Potomac, (8) Naval Observatory, and (9) U.S. Vice-President (Quayle) residence.

(Photo by Colorcraft Studies, New York, NY; text by Alexander Radichevich, NWS Hqtrs.)

SOUTHERN REGION

Centennial Celebration

NWS Officials in Fort Worth Celebrate Centennial "Kick-off" in Grand Style

To commemorate the National Weather Service's 100th anniversary, an impressive ceremony was held at the Fort Worth Federal Building on November 1, 1990. A crowd of over 200 attended the outdoor event with federal, state, and local government officials present. Among the speakers were U.S. Representative Pete Geren, Texas House Speaker Gib Lewis, Fort Worth Mayor Bob Bolen, KXAS/Channel 5 Chief Meteorologist Harold Taft, and NWS Southern Region Director Harry Hassel. Deputy Regional Director X. William Proenza was the master of ceremonies. Also, two aides from former Speaker of the U.S. House of Representatives Jim Wright, postal officials, and news media were in attendance. Special guest Mary Frances Burgon, who was one of the first ten women in 1942 to enter the Weather Bureau during the wartime years, sat in the VIP section.

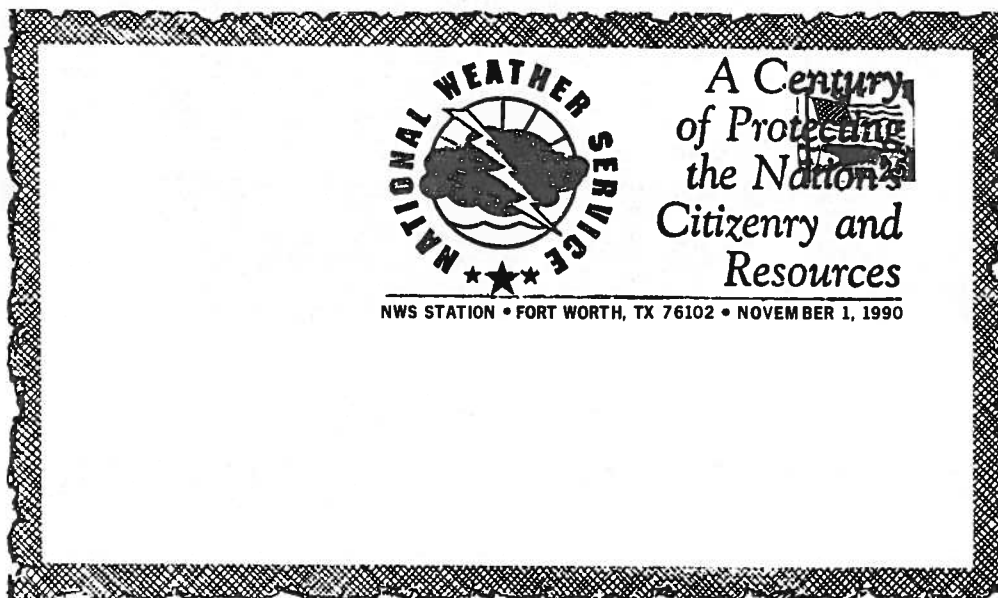
State and city proclamations were read by Speaker Gib Lewis and Mayor Bob Bolen proclaiming November 1 "NWS and Cooperative Observer Day" for the state of Texas and city of Fort Worth.

Fourteen beautiful exhibits and cooperative observer weather equipment were displayed in the lobby of the Federal Building November 1 and 2, where approximately 4,000 people viewed scenes from our rich heritage to exhibits showing the NWS modernization and improved technology era.

The Postal Service set up a special booth stamping our Centennial pictorial postmark on envelopes and postcards. In fact, numerous requests for this Centennial postmark have been pouring into the Fort Worth Post Office from across the country during the past month. Sales and interest in the postmark have been so high that postal officials plan to display our Centennial postmark permanently at the Fort Worth main Post Office museum.

By all accounts, this was one of the best exhibits and ceremonies ever held at the Fort Worth Federal Building. Requests are beginning to come in for an encore.

The success of this Centennial event will set a standard and be a model for other regions to follow.



CENTENNIAL COOPERATIVE NATIONAL WEATHER SERVICE STATIONS IN ILLINOIS

Wayne M. Wendland
State Climatologist
Illinois State Water Survey
Champaign, IL 61820

Cooperative National Weather Service (NWS) stations have been in existence since the mid-1850s. These sites take daily measurements of maximum and minimum temperature and precipitation and snowfall during the previous 24 hours, and snow on the ground at the time of observation. Instruments are provided to the nonprofessional observers, and they are trained by the NWS Cooperative Program Manager for that state.

At the same time each day, the observer reads the instruments, resets the max and min thermometers, and records the observation. At the end of the month, a paper copy of the observations is sent to the National Climatic Data Center (NCDC), Asheville, NC, who key the data and enter them into the archive.

There are about 6,000 such sites in the U.S., and about 200 in Illinois, some measuring only precipitation, and not all reporting to the NWS. Somewhat more than half of the observations are taken near 7:00 a.m., fewer than half at about 5:00 p.m., and only about 10% at midnight, therefore most of the observations do not represent calendar day precipitation, or high and low temperatures.

In late 1988, the National Climatic Data Center suggested that sites with at least 100 years of continuous service be honored. They provided initial lists of centennial stations, after which each state could proceed to arrange a centennial celebration.

NCDC had identified some 28 Illinois sites from their files with at least 100 years of continuous record. In addition, the Illinois State Water Survey identified another 20 stations from its archives, data which they are currently keying directly from the original hard-copy daily data, yielding a total of 58 centennial sites in Illinois (see Table 1).

In late October and early November 1990, to commemorate the centennial stations, the Illinois State Water Survey hosted dinners for present and past observers of the centennial stations. Four dinners were held, one each in Woodhull (northwestern IL), Mt. Vernon (southern IL), Springfield (central IL) and Urbana (east-central IL). Twenty-five present and past centennial stations observers and their guests attended. A list of attendees follows.

National Weather Service personnel were represented at all dinners. William Buckingham, the NWS Cooperative Program Manager for Illinois, attended all meetings. In addition, Paul Dailey, NWS Area Manager from the O'Hare NWS station; Jim Meyer, MIC of the Moline NWS station; Steve Thomas (MIC) and Ernest Goetsch of the St. Louis office, and Charles Fenley, MIC of the Springfield, IL NWS office, attended one or more meetings.

State Representatives Karen Hasara and Helen Satterthwaite attended the meetings, as did Representative Administrative Assistants Sandy Hecht (to Rep. Karen Hasara) and Adam Hirschfield (to Rep. Tim Johnson). Dr. Donald Holt, Director of the Illinois Experiment Station, attended the Champaign meeting.

Each meeting included a short reception, followed by a dinner, hosted by the Water Survey. Wayne M. Wendland, Illinois State Climatologist, Illinois State Water Survey, welcomed the group, and introduced the attendees. He then presented a short review of the history of weather observing in Illinois, including the increase in numbers of participating stations, and the distribution of observers from the mid-1800s. He reviewed prominent Illinois weather events of the 19th century, and the change in the managing organization, first under the auspices of the Smithsonian Institution, followed by the Signal Corps of the U.S. Army, the U.S. Weather Bureau, and the National Weather Service.

Comments were offered by the NWS and other invited guests, after which certificates from NCDC were presented to the attending observers, attesting to their centennial event. The Water Survey presented certificates to the observers and the mayors of the respective cities.

There was newspaper, radio, and television coverage of the dinners.

Centennial Stations of Illinois as of 1990

| | | | | | | |
|-------------|------------|-------------|--------------|-------------|-------------|------------|
| Albion | Charleston | Galva | Jacksonville | Moline | Pana | Urbana |
| Aledo | Chicago | Geneseo | Joliet | Monmouth | Paris | Vandalia |
| Anna | Decatur | Gibson City | Kankakee | Morrison | Payson | Virden |
| Aurora | DeKalb | Golden | LaHarpe | Mt. Carmel | Peoria | Walnut |
| Belleville | Dixon | Greenville | Lincoln | Mt. Carroll | Petersburg | Watseka |
| Benton | Du Quoin | Griggsville | Marengo | Mt. Vernon | Pontiac | Wheaton |
| Cairo | Elgin | Havana | Mattoon | Olney | Rockford | White Hall |
| Carlinville | Fairfield | Hennepin | McLeansboro | Ottawa | Sparta | Windsor |
| Casey | Flora | Hoopeston | Minonk | Palestine | Springfield | |

Mt. Vernon, October 29, 1990

| | |
|--|--|
| Bill Buckingham, CPM, NWS | Allen Hale, Flora, since 1963 (1869) |
| Steve Thomas, MIC, NWS at St. Louis | Bon Hartline, Anna, since 1945 (1884) |
| Ernest Goetsch, Deputy MIC at St. Louis | John Luthy, Sparta, since 1975 (1887) |
| Wayne M. Wendland, ISWS | Robert Moorhous, Mt. Vernon, since 1972 (1895) |
| Jennilyn Brown, McLeansboro, since 1987 (1882) | G. L. Wallace, Fairfield, since 1957 (1885) |
| Richard and Carol Brown, McLeansboro, 1983 to 1987 (1882) | Merele Taylor, DuQuoin, since 1975 (1887) |
| Horace M. Gaddis, Palestine, retired, received Holm Award in 1974 (1882) | Allen Hale, Louisville |
| | John Liethé, Sparta |

Springfield, October 30, 1990

| | |
|--|--|
| Bill Buckingham, CPM, NWS | Eddie Lawson, White Hall, Assistant Observer |
| Charles Fenley, MIC, Springfield NWS | Donnie Talkington, White Hall, Asst Obs |
| Representative Karen Hasara | Phillip Seymoure, White Hall, Asst Obs |
| John Bronx, reporter for Pana News Palladium | C. E. Schumacher, Pana, since (1887) |
| Sandy Hecht, Aide to Rep. Karen Hasara | William Amling, Mayor of Pana |
| Wayne M. Wendland, ISWS | Robert Weakly, Minonk, since 1981 (1893) |
| George Becker, Petersburg, since 1972 (1889) | |

Urbana, November 1, 1990

| | | |
|--|--|--|
| Judy Fraser, Channel 3, Champaign | Wayne M. Wendland, ISWS | Wayne Armstrong, ISWS, Urbana, since 1988 (1888) |
| Bill Buckingham, CPM, NWS | Adam Hirschfield, Aide to Rep. Tim Johnson | Audrey Bryan, ISWS, Urbana, since 1985 (1888) |
| Representative Helen Satterthwaite | Anne Cook, News Gazette | Rick Craig, Paris, since (1887) |
| Paul Dailey, MIC at O'Hare, Area Manager | Charles Fenley, MIC at Springfield | Mayor Frank Clinton, Paris |
| Donald Holt, Director, Agricultural Experiment Station | Steve Hollinger, ISWS | Paul Ruff, Paris City Manager |
| | | James Morse, Pontiac, since 1985 (1898) |
| | | John Mushrush, Hoopeston, since 1951 (1887) |
| | | Dallas A. Price, Charleston, since ? |
| | | Robert Provin, Gibson City, since ? |

Woodhull, October 24, 1990

| | |
|--|--|
| Jim Meyer, MIC Moline | Jim Lamkin, Walnut, since 1984 (1891) |
| Bill Buckingham, CPM, NWS | Robert Matson, Monmouth, since 1982 (1887) |
| Mike Mainz, NW IL Agr. Research Center | Raimason Smith, Galva, since 1970 (1876) |
| Wayne M. Wendland, ISWS | Ronald Holt, retired observer, Galva |
| | Russell Everett, Galva, guest |

SOUTHERN REGION



Berry A. Ferguson, cooperative observer, Stillwell 1 NE OK, was presented a 40-year length-of-service award by Woody Currence, CPM/LZK.



Erlene Hellums, cooperative observer, Sarepta 1 NNE, MS, was presented a 30-year length-of-service award by Thom Stenman, CPM/JAN.



Clarence Chaney, Morgan 5 NW, GA, was presented a 30-year pin and certificate by Tom Clarke, CPM, Lakeland, FL.



Charles Kelly, Camilla, GA, was presented a 30-year pin and certificate by Tom Clarke. (Wonder what's on the dog's mind?)



Bertha A. Fohn, Cedar Creek, TX, was presented a 30-year length-of-service award by Lou Withrow, MIC/WSO/AUS.



Joseph A. Moudy, cooperative observer, Danville, AR, was presented a 25-year length-of-service award by Woody Currence.

SOUTHERN REGION



Virgil W. Parris accepted a 25-year Institutional Award for the Corps of Engineers, Broken Bow Dam. Woody Currence (right), made the presentation.



Arra L. Nelson, cooperative observer, Dublin, TX, was presented a 20-year length-of-service award by Alan Starnes.



E. W. Henning, observer, Glen Cove 2 WNW, TX, was presented a 20-year length-of-service award by Alan Starnes, CPM, Waco, TX.



Oneta J. Sowers, observer, Red Bluff Crossing, TX, was recently presented a 20-year length-of-service award by Alan Starnes.



Mr. and Mrs. Hilton Keeter were presented an award for over 20 years service as weather observers at Throckmorton, TX. CPM Jerry Wolfe presented the award for the Fort Worth Forecast Office.



Bill Wade, cooperative observer, Humble Pump Station 5 WNW, TX, was presented a 20-year length-of-service award by Alan Starnes.

SOUTHERN REGION



Jerry Turney, cooperative observer, Bentonville 4 S, AR, received his 15-year length-of-service award. Pictured with the award is Mrs. Turney. CPM/LZK.



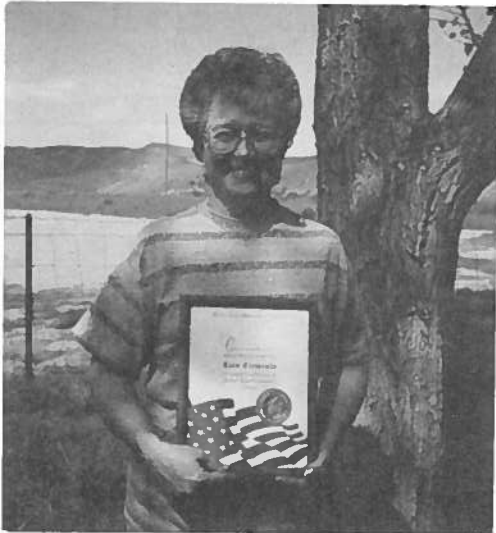
Floyd Kelly, cooperative observer and Mayor of Portland, AR, received a 10-year award. Presentation was made by John McBroom, CPM/BNA.



Lynn Vann, cooperative observer, Short 1 E, OK, was presented a 15-year length-of-service award by Woody Currence.



Agustin O'Neill, cooperative observer, La Muda-Caguas, was presented a 10-year length-of-service award by Tomas Perez-Lugo, CPM/San Juan, PR. Mrs. O'Neill is pictured with her husband.



Lois Clements, cooperative observer, Picacho 2 WSE, NM, was recently presented a 10-year length-of-service award. She is an outstanding weather observer who takes all of her duties seriously. Lois drives a school bus and works closely with emergency medical services in this sparsely populated region. Dick Snyder, CPM/ABQ, made the presentation.



Abbeville, Georgia was recently presented with three Special Service Awards. The awards were received by Wesley Bowen, cooperative observer; Denise Keen, student volunteer; and Chuck Taylor, volunteer citizen for outstanding service to the NWS and the local community during the March 1990 flood on the Ocmulgee River. The NWS is indeed fortunate to have the able assistance of such dedicated and caring persons. Pictured from left to right: Wesley Bowen, observer; Carlos Garza, AM/MIC, GA; Denise Keen, Chuck Taylor, and Ralph Funderburk, CPM/MCN. Photo by Rusty Pfost, SH, ATL.

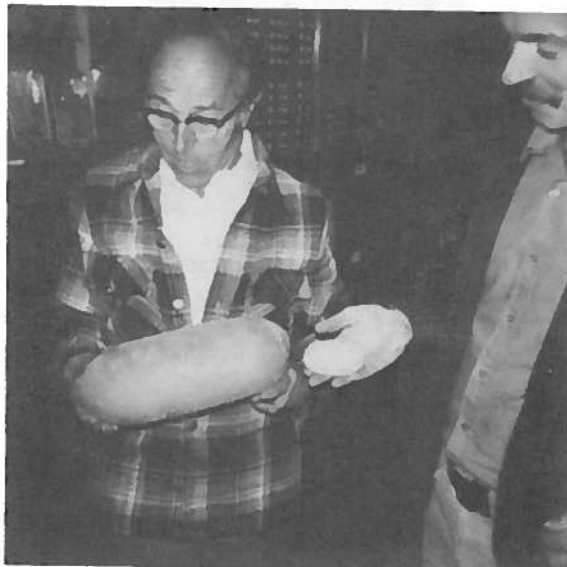
ALASKA REGION

CORRECTION: NCON, FALL 1990, VOLUME 8, NUMBER 1
ALASKA REGION: Page 3 "The Stars and Stripes have flown over Alaska since 1867" and not 1967.

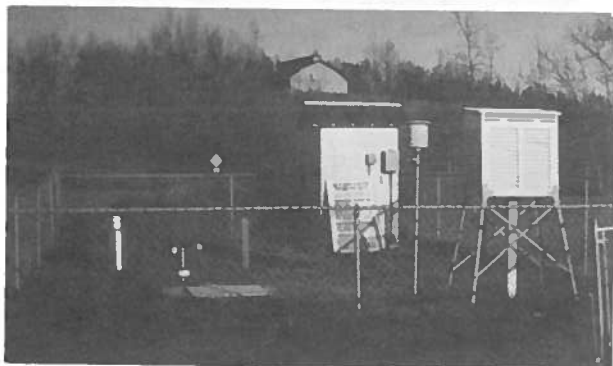
Farming in Alaska: Alaska imports from other states about 90% of its food. Very little of its vast area is suitable for farming. Good land is usually covered with trees and is difficult and expensive to clear. Farm machinery and fertilizer are expensive also because they must be imported. The growing season (the time between killing frosts) is short, but plants grow faster because of the long summer daylight.

Farm land is being steadily added but still only about 25,000 acres. The best farm lands are in the Matanuska Valley, 50 miles northeast of Anchorage; in the Tannana River valley, near Fairbanks; in the lowlands of the Kenai Peninsula; and the limited flat land of the Panhandle. The Matanuska district is by far the largest and the most prosperous.

The most profitable crops are perishable products, garden vegetables, milk, and eggs command a good price in Alaska markets because of their freshness. Long hours of daylight produce potatoes, carrots, and cabbages of enormous size.



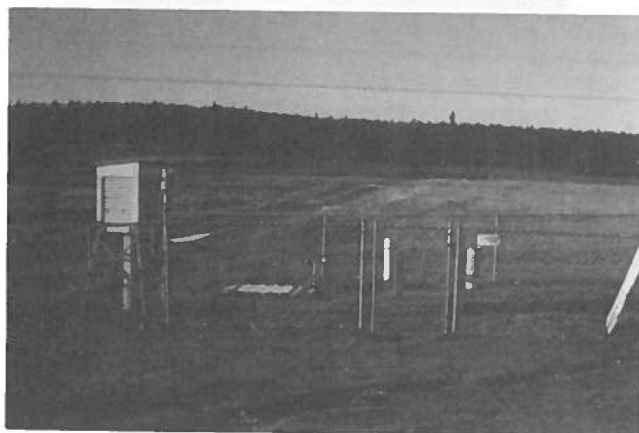
Matanuska Agro-experimental Station (AES) has records going back to 1917. This farm researches dairy and beef cattle as well as different types of vegetables. The photo shows an average potato (on the right) and a new research offspring (left) the size of an Italian bread!



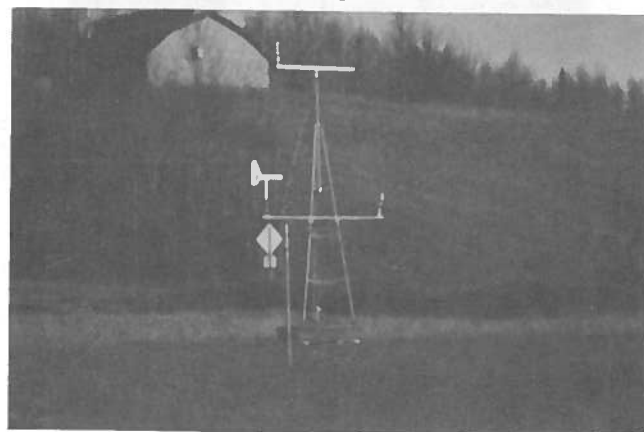
Matanuska AES (Looking North)



Looking East



Matanuska AES (Looking West)



State-Owned Automatic Weather Station

In addition to NWS Cooperative station (measuring evaporation, also), the state of Alaska has established an automatic weather station to complement climatological data from this timbered, rolling land,

with a high mountain range and its highest peak, Mt. McKinley of 20,320 feet at not-so-distant northern snow-cap horizon. (The photos by Ed Misiewicz, Chief; the text: Alexander Radichevich, NWS-Hqtrs.)

EASTERN REGION



A 50-year Institutional Award was presented to the Bridgewater MCI, Massachusetts, station. Leo DuBois, Pollution Control Plant Manager, accepted the award on behalf of the Massachusetts Correctional Institution.

Tony Mach, Cooperative Program Manager, Hartford, CT, made the presentation.



A 25-year length-of-service award was presented to Dr. Jerome S. Thaler, observer, Yorktown Heights, NY. Dr. Thaler has done extensive research of climatology in the lower Hudson Valley and has had some of his work published. Presentation was made by Tony Mach.



Thelma and Ronald Hudson, observers, Wales, NY, were presented a 30-year length-of-service award by Ray West, Cooperative Program Manager, Albany, NY.



Julian A. Kesterson (left), observer, Glasgow, VA, was presented a 20-year length-of-service award by Hurtis Smith (right), Meteorologist in Charge, Weather Service Office, Richmond, VA.



A 30-year length-of-service award was presented to Bob Lautzenheiser, observer at Reading, MA. Presentation was made by Bob Thompson, MIC, Weather Service Forecast Office, Boston, MA.

Bob began a career with the National Weather Service at Akron, OH, in 1940 as a Meteorologist. He worked at Fort Wayne, IN and Chicago, IL before being appointed Massachusetts State Climatologist in 1956 to 1982 when he turned the position over to David Taylor, the current Massachusetts State Climatologist. When Bob Thompson, who began his career at the Weather Service Forecast Office in Boston in 1971, he was sworn into service by Mr. Lautzenheiser.

Arrangements for the presentation of this award and photo were made by Tony Mach.

Photo left to right: Mrs. Lautzenheiser, Mr. Lautzenheiser, and Bob Thompson.



Molly K. Morgan, observer, Blantyre, NC, was presented a 20-year length-of-service award by Earl Rampey, Cooperative Program Manager, Columbia, SC.



Stacey G. Swift, observer, North Foster, RI, was presented a 20-year length-of-service award by Paul Sisson, MIC, WSO Providence, RI.

Arrangements for the presentation of this award and photo were made by Tony Mach. Photo left to right: Paul Sisson and Stacey Swift.

EASTERN REGION



David Taylor, observer, Bedford, MA, and Massachusetts State Climatologist, was presented a 20-year length-of-service award. Dave has been the primary observer at this station since 1970 and State Climatologist since 1982 when he took over from Bob Lautzenheiser.

The ceremony was held at the Weather Services Corporation where the Bedford, MA, station is located. In addition to the Weather Service Corporation staff, those in attendance included Dr. Richard Rohde, University of Massachusetts Agricultural Experiment Station; Associate Director, Bob Lautzenheiser; Associate State Climatologist, Tony Mach; and Bob Thompson, Meteorologist in Charge, Weather Service Forecast Office, Boston, MA, who made the presentation.

Arrangements for the presentation of this award and photo were made by Tony Mach. Photo left to right: Bob Thompson, David Taylor, Pete Leavitt, Vice-President Weather Services Corporation, and Bob Lautzenheiser.



Lot Smith (left), observer, Columbus Valley Crossing, OH, was presented a 10-year length-of-service award by Lewis Ramey (right), Meteorologist in Charge, Weather Service Office, Columbus, OH.

Arrangements for the presentation of award and photo were made by Michael Wyatt, CPM, Columbus, OH.



Jack Kanack, observer, North Tonawanda, NY, took this picture of an ice storm which occurred on February 15, 1990 and lasted 18 hours. Photo was taken from Mr. Kanack's front lawn looking east.

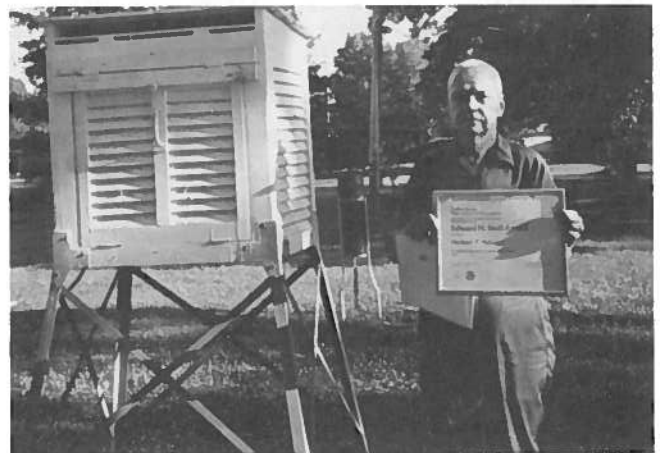
CENTRAL REGION



Lloyd Vrtiska, Table Rock 4 N, NE, was presented the John Campanius Holm Award. From left to right: Tom Sinclair; Lloyd Vrtiska, observer; and George Matuella, SMT/OMA. Lloyd has weather records for Table Rock that go back to 1878 - all from previous observers. Fascinating to see all the old history!!



Mr. and Mrs. William Sand, Friend, NE, were presented the 1990 John Campanius Holm Award. Mr. Sand continues to work as a printer at the newspaper office, but may change career fields and become a hog farmer again. Congratulations to an outstanding observer. Presentation by Tom Sinclair, CPM/OMA.



Frank Nelson, Sweet Springs, MO, received the Edward H. Stoll Award and a 50-year length-of-service award from Ann Rundel CPM, WSFO St. Louis, MO.

CENTRAL REGION



The Indiana Department of Highways, Seymour District, was given a 50-year Institutional Award. John T. Curran, MIC/WSFO Indianapolis presented the award to Jim Rice, Superintendent. Pictured left to right: Roger Kenyon, CPM, WSFO Indianapolis; John T. Curran; Jim Rice and Gary Tarr, observer and assistant to Mr. Rice.



Robert Houfek, Malmo 3 E, NE, was presented a 40-year Family Service Certificate. Bob, his daughters, Susan and Lisa, and Bob's father have all been the weather observers. Incidentally, Bob grows the "best" sweet corn in Nebraska! Presentation by Tom Sinclair.



WEATHER REPORTING AWARD

The Kankakee Metropolitan Wastewater Utility, Illinois, was presented a certificate of achievement from the National Weather Bureau of the National Oceanic and Atmospheric Administration. The award marks 50 years of continued weather observation and reporting for the weather service at the plant. The information reported from here is used by O'Hare and The Journal and for agricultural purposes. Robert Pucek, Metro's maintenance division manager, has been reporting the data for the last 19 years of his 20-year employment with the utility. From left are William R. Buckingham, cooperative program manager for Illinois with the National Weather Service; Jim Schroeder, chief of the Cooperative Service Program, Kansas City; Pucek; and Dick Schultz, assistant supervisor, Metro Wastewater.



Lorenzo D. Morgison, Clifton, KS, was presented a 40-year length-of-service award by Leighton Schneider, OIC, Concordia, KS. Lorenzo was a recipient of the Holm Award in 1983.



F. Paul Eye, Appleton City, MO, received his 40-year award from Ann Rundel.



Elden Bass, Loup City 1 N, NE, was presented a 30-year Service Award by Tom Sinclair. Mr. Bass is a retired judge and now devotes his time to woodworking and building and promoting "Big Red" Nebraska football.

CENTRAL REGION



Robert Burns, cooperative observer, Everly 3 MNW, IA, was presented a pin and a 30-year length-of-service award by Bill Newman, CPM/PSM.



Richard A. Feser was presented a Special Service Award to celebrate his 25 years of service as a Cooperative Weather Observer. Mr. Feser is the observer for Springfield, MN, in southwestern portion of the state.



Viola A. St. Clair, Harlan, KS, received an award from Leighton Schneider, to mark the 30 years she has served as rainfall observer. Viola recently retired from her job as postmaster of the Harlan office.



The Decatur, IN, Waste Water Treatment Plant was awarded a 25-year Institutional Award by Russ Marshal, OIC/FWA. The award was presented to Ann Smitley, Superintendent; and Mayor Fred Isch. The plant keeps close tabs on the St. Mary's River and reports rainfall to Indianapolis daily.



Wanda L. Diehl, Tescott, KS, has served as river and rainfall observer for the past 25 years. Pictured left to right: Gary Funke, CPM, WSFO Topeka; Wanda and Leighton Schneider.



Pictured is Peter Harles, cooperative observer, Lidgerwood 1 SSW, ND, with his 20-year length-of-service award. Observer built his own family astronomy observatory which is pictured in the background. Picture and presentation by Vern Roller, CPM, WSFO Bismarck, ND.

CENTRAL REGION



Ralph H. Herron, cooperative observer, Red Oak, IA, was presented a pin and a 20-year length-of-service award by Bill Newman.



Marjorie Hardy, Woodruff 3 WSW, KS, was presented a 10-year service award by Mike Elias, CPM, GLD.



Pictured is Wayne E. Lang, cooperative observer, Dawson, ND, with his 20-year length-of-service award. Picture and presentation by Vern Roller.



Raymond O'Neil, Beattie 2 NNW, KS, was presented a 10-year length-of-service award by Gary Funke.



Ramaison F. Smith, Galva, IL, was presented a 20-year length-of-service award.



Carroll E. Bowman, better known as "Buster," was presented a Special Service Award by John T. Curran, area manager of Indiana. Mr. Bowman is the cooperative weather observer for Lebanon, IN City Utilities. Mr. Bowman has taken special interest in the recording of rainfall data resulting in many benefits to the farm community in Lebanon, IN. Mr. Curran (right) is shown presenting the award to Buster.

CENTRAL REGION

LENGTH-OF-SERVICE AWARDS AND PINS

| | | | | | |
|---------------------------|-----------------|----|-----------------------------|------------------|----|
| COLORADO | | | | | |
| Bill Ringle | Ordway 21 N | 10 | KENTUCKY | Bradfordsville | 10 |
| Terry Gaines | Flagler 2 NW | 20 | George E. Edelen, Jr. | Falmouth | 10 |
| Neil Lindstrom | Flagler 5 WSW | 20 | Neva Sue Teegarden | Middlesboro | 15 |
| | | | Craig Smith | | |
| ILLINOIS | | | MINNESOTA | | |
| Twila A. Reusch | Elizabeth | 10 | Warren Harkins | Twin Valley | 20 |
| INDIANA | | | MISSOURI | | |
| Vernon Gilbert | Mitchell | 10 | Gary Beissenherz | Concordia | 10 |
| Robert Bruns | Sunman | 10 | Stephen J. Kral | Rosebud | 10 |
| | | | Cleatus Stanfill | Caruthersville | 10 |
| IOWA | | | Shirley B. Houston | Marble Hill | 20 |
| James C. Blaess | Clinton No 1 | 10 | Jacob Mueller | Old Monroe | 20 |
| Evelyn J. Blanchard | Carson | 10 | | | |
| Alan D. Galbraith | Sac City | 10 | NEBRASKA | | |
| Herbert & Genevieve Heald | Tipton | 10 | Farley Amick | Weeping Water | 10 |
| Nadine Jensen | Massena | 10 | Ansel Ellis | Merriman | 10 |
| Richard K. Kobbe | Sheldon | 10 | Walter Frey | Albion 7 W | 10 |
| Helen L. Leech | Fayette | 10 | Ardith Keim | Elm Creek | 10 |
| Russell A. Miller | Centerville | 10 | Ralph Lampe | Auburn 1 E | 10 |
| Edwin H. Sorber | Stratford | 10 | Glen Mitchell | Rushville | 10 |
| Eugene O. Frye | Cedar Rapids #1 | 20 | Barbara Park | Wilsonville | 10 |
| Mrs. Mark Pope | Mapleton | 20 | William Umberger | Holdrege | 10 |
| | | | Victor Bodyfield | Ericson 6 NNW | 15 |
| KANSAS | | | Dennis Ekberg | Wayne 4 N | 15 |
| Anna Burgess | Lenora | 10 | Don Liebert | Sargent | 15 |
| Robert E. Dreith | Randolph 4 WNW | 10 | Mrs. Carroll Cordes | Scribner | 20 |
| Stephen Fenster | Healy | 10 | Don Galaway | McCool Junction | 20 |
| Clifford Jordan | Great Bend | 10 | Pat Gross | Wayne | 20 |
| Linda P. Jorgenson | Marysville | 10 | Clarence Johns | Elgin | 20 |
| Anna Lee Knouft | Holton 1 W | 10 | Dennis Johnson | Polk | 20 |
| Gary Lawson | Augusta | 10 | Gilbert A. Koch | Eustis 2 NW | 20 |
| Evelyn D. Matz | Elmdale 10 WNW | 10 | Lawrence Lindley | Anselmo | 20 |
| Ralph Miller | Liberal | 10 | George Normal | Ragan | 20 |
| Frank Nelson | White City | 10 | Mr. & Mrs. Norden Nutter | Gibbon 3 ENE | 20 |
| Pete Norton | Utica | 10 | Kenneth Cunningham | Fullerton | 25 |
| Louis Rathke | Miller | 10 | Leona Jefferies | Ewing | 25 |
| Albert E. Riffel | Lincolnville | 10 | Warren Mesner | Central City | 25 |
| Mr. & Mrs. Albert Shaw | Galesburg | 10 | George Umbarger | Genoa | 25 |
| Wight Sime | Mingo 5 E | 10 | Alfred Witcofski | Boys Town | 25 |
| Francis Starr | Burdett | 10 | | | |
| Robert M. Haigh | Beloit | 15 | Institutional Awards | | |
| Robert D. Smith | Williamsburg | 15 | COLORADO | | |
| Ella E. West | Haddam | 15 | Las Animas Power Plant | Las Animas | 25 |
| Jean M. Davis | Esbon 7 N | 20 | | | |
| Eldor I. Duensing | Bremen | 20 | INDIANA | | |
| Allen Houk | Moran | 20 | Army Corps of Engineering | Monroe Reservoir | 25 |
| E. Gordon Johnson | Wellington | 20 | NORTH DAKOTA | | |
| Wilbur Johnson | Cassoday | 20 | Thomas P. Karch | Bottineau | 10 |
| Wilford Martin | McDonald | 20 | Dean B. Johnson | Mott | 10 |
| Eugene Normandin | Damar | 20 | George Lewis | Hansboro 4 NNE | 10 |
| Lee R. Parks | Miltonvale | 20 | Don Martel | Ambrose 3 N | 10 |
| Harvey C. Rogers | Downs | 20 | Florence Newsom | Hurdsfield 8 SW | 10 |
| Elaine M. Weinert | Lillis | 20 | James B. Archambault | Fort Yates | 20 |
| James S. Brim | Elgin | 20 | | | |

WESTERN REGION



Eugene Uhrig (left), was presented the John Campanius HoIm Award by NWS Western Region Director Tom Potter at the Salem, OR, Weather Service Office. Mr. Uhrig, a retired county employee and long-time school board member, has taken observations for over 33 years at his ranch near Scotts Mills, OR.



A 75-year Institutional Award was presented to the U.S. Forest Service/California Department of Forestry Station, Yreka, CA. The award was presented by Chris Fontana, MIC, NWS Redding office. Shown (left to right) are Chris Fontana; Ed Allen, U.S. Forest Service; and Bill Chaffin, California Department of Forestry.

WESTERN REGION



The County of San Diego, CA, was presented 50-year Institutional Awards for their Morena Dam and Lower Otay Reservoir stations. Dave Solomon (right), Deputy San Diego County Engineer, accepted the awards presented by Wilbur Shigehara, Meteorologist in Charge, NWS Office, San Diego.



Betty Oliver, Ironside 2 W, OR, was presented a 35-year length-of-service award. She and her children run a ranch located in east-central Oregon, about 45 miles west of the Idaho border.



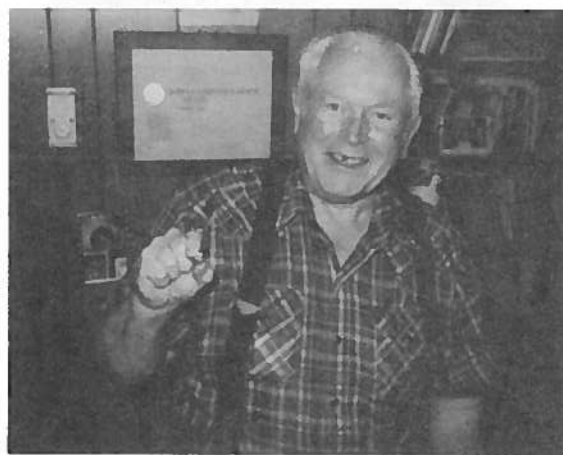
Eleanor Kennedy (left), Lower Hay Creek, OR, was presented a 45-year length-of-service award. Shown with Mrs. Kennedy is her granddaughter-in-law, Terry Richardson. Terry and her husband serve as alternate observers. Mrs. Richardson lives on a recreational ranch known to rock hounds all over the world for its agates.



Emma Pereira (right), Greenview, CA, was presented a 35-year length-of-service award by Chris Fontana.



Frank Birtic, Knobs, MT, was presented a 35-year length-of-service award. Mr. Birtic's readings of daily precipitation at his Fallon County ranch have been used by other agencies, as well as the NWS.



Observer Bob Gray was recently presented a 25-year award. Bob takes daily precipitation and temperature readings at his residence in Gibbon, OR. In addition, he maintains the river gage at Gibbon 3 NE.

WESTERN REGION



Roberta (Sandy) Kiegon, Ashwood 2 NE, OR, was presented a 25-year length-of-service award. Mrs. Kiegon took observations at the post office where she was postmaster. When she retired, the weather station was moved to her residence.



Whitehorse Ranch, OR, was presented a 25-year Institutional Award which was accepted by Alice Lay. Alice, along with her husband, Britt, manages Whitehorse Ranch, one of the larger cattle ranches in Oregon. The Whitehorse is the oldest ranch in Malheur County, started by John Divine in 1869.



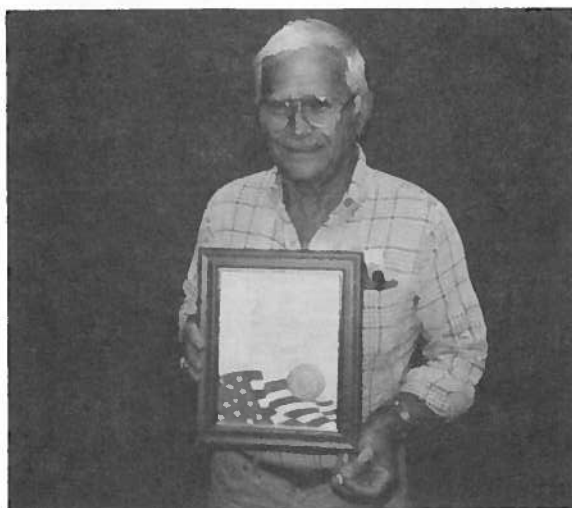
Lick Observatory, Mount Hamilton, CA, was presented a 25-year Institutional Award. Mildred Harlan of the observatory's staff accepted the award. The Lick Observatory, an organized research unit of the University of California, contains the Shane reflecting telescope, eighth largest in the world.



Arthur J. Smith, Elgin, OR, was presented a 20-year length-of-service award by CPM Clint Jensen.



The Western Agriculture Research Center, Corvallis, MT, was presented a 25-year Institutional Award by Ole Olson, CPM, WSFO Boise. Accepting the award for the station were Jim Storey (left) and Bill Good.



Robert Cunningham, Molalla 2 ESE, OR, was presented a 20-year award. Bob maintains a river watch at his "b" network station.

WESTERN REGION



Arnold Finklin, Missoula 2 NE, MT, was presented a 20-year length-of-service award. Mr. Finklin owns all the equipment at his station, and he has just put in some automatic equipment including wind direction and speed. He also has a Universal recording rain gage.



Mr. and Mrs. Fred Wix, Culbertson, MT, were presented a length-of-service award recognizing their 15 years of service as volunteer weather observers. Mr. Wix, a dry-land farmer, has a natural interest in the weather. Mrs. Wix, an employee of the U.S. Soil Conservation Service, also has an interest in the climate. Together they share the duties of reading and recording the weather.

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