



# The National Cooperative Observer

The National Cooperative Observer is an online newsletter.

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Winter 2018

## Inside

Original Weather Kiosk Gets New Life in Knoxville 2

Thomas Jefferson and 125 Year Family Heritage Award 4

John Campanius Holm Awards 5

100 and 75 Year Honored Institution Awards 10

Edward R. Stoll 50 Year Awards 11

50 Year Family Heritage Award and 40 Year Service Award 11

50, 25 Year Honored Institution Awards 12, 19

45 Year Dick Hagemeyer Service Award 15

Length of Service Awards  
35 Years: 16  
30 Years: 16  
25 Years: 17  
20 Years: 20  
15 Years: 22  
10 Years: 23

January, February, March Temperature and Precipitation Outlooks 24

## World Meteorological Organization Recognized Centennial Weather Observing Sites

During a ceremony on November 30, Melissa Kreller, NWS Fairbanks, AK, Meteorologist-in-Charge (MIC), presented an award from the [World Meteorological Organization \(WMO\)](#) to the [University of Alaska Fairbanks \(UAF\) Agricultural and Forestry Experiment Station \(AFES\)](#). The award recognizing more than a century of weather observations.

The weather station is on the AFES' [Fairbanks Experiment Farm](#). WFO Fairbanks is also on the university campus.

In 2017, the WMO began recognizing centennial stations, sites where weather data has been collected for more than a 100 years with no or little change in observing location. Sites also must have less than 10 percent missing data.



MIC Melissa Kreller, NWS Fairbanks, AK, presents award to Alan Tonne, AFES Farm Manager. Alan has been taking observations for about 14 years.

*Photo courtesy UAF.*



Dick Thoman, former Alaska Region Climate Science and Services Program Manager, currently Climate Specialist for UAF, discussing the value of continuous observations

Observers at the AFES station began recording daily weather data on the farm on July 1, 1911. The site is the longest continuously running weather observation station in Alaska in the same location, but has had multiple changes to the observation time. AFES was the only weather observation site in the Fairbanks area until the Fairbanks Weather Bureau office opened on July 15, 1929. The Weather Bureau also set up "second order" stations at Tanana and Eagle, AK, in the 1920s.

Several UAF scientists spoke during the ceremony, providing details on the site's significance. Experimental stations around the country began collecting weather information because of its importance to farmers. Most weather stations moved to commercial

Seven U.S. stations have been recognized as centennial stations. Others recognized this year are Purdum, NE; Saint Johnsbury, VT; and the Buffalo Bill Dam in WY.



*Ian Tonne, Agricultural and Forestry Experiment Station Farm Manager, stands in the middle of the farm's weather station during summer. Photo courtesy UAF.*

airports at some point, making AFES' lengthy, consistent record even more important to climate scientists and researchers.

UAF scientists use the AFES data for research on topics such as snow cover, tree growth and the growing season. Rick Thoman, Climate Specialist for the university and former NWS Alaska Region Climate Science and

Services Program Manager, explained that station records show the growing season at the station has lengthened by 23 days over the last 50 years.

Seven U.S. stations have been recognized as centennial stations. Others recognized this year are Purdum, NE; Saint Johnsbury, VT; and the Buffalo Bill Dam in Wyoming.

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## Original Weather Kiosk Gets New Life in Knoxville

In the late 1890s, the U.S. Weather Bureau wanted to find a better way to disseminate weather information. The decision was to put weather stations and information where lots of people reside, near train stations and downtown areas. These stations were called weather kiosks.

Within 10 years, weather kiosks became the thing to have in your city. The kiosks, which contained weather instruments in a glass window, were considered quite attractive.

As radio broadcasting grew in the 1920s, the radio became the new and improved way to get weather information. Over time, the kiosks were removed and destroyed.

**Figure 1** show a U.S. Weather Bureau kiosk in Washington, DC, circa 1909.

To NWS's knowledge, the only kiosk that has survived was the one in Knoxville, TN, **Figure 2**. Rather than being removed and destroyed, the kiosk was sold to a local cemetery for \$35, where it was used to post daily funeral information for more than 70 years.

The East Tennessee Historical Society (ETHS) was able to acquire the kiosk from the cemetery a few years ago and has done some restoration, but ETHS hopes to do much more.

The ETHS kiosk is in the Old Customs House in downtown Knoxville. The Old Customs House, often referred to as the Old Post Office, was the first federal building in Knoxville and thus the original location of the kiosk. Notice that the Knoxville kiosk no longer has weather



**Figure 1:** U.S. Weather Bureau kiosk in Washington, DC, circa 1909

instrumentation. A diagram and description of the original reporting equipment is seen in **Figure 3**. If possible, ETHS wants to find some of the gauges originally used in the kiosks and restore them in this one.

One piece that may still be intact is the catch funnel for the rain gauge. It was made

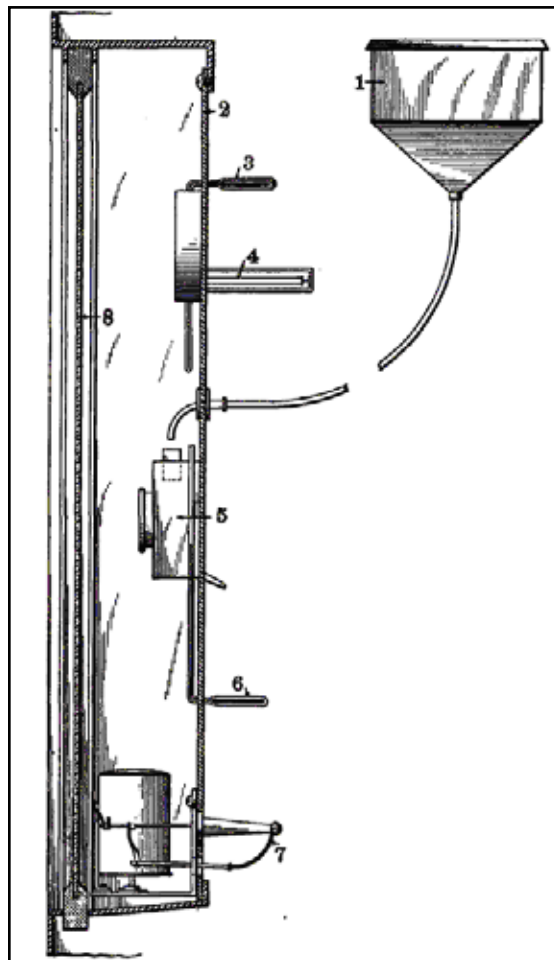


**Figure 2:** Knoxville kiosk today, sitting in the exact same spot it did over 100 years ago

of copper, 15 inches square, and was centered atop the kiosk. It appears it may still be in place and simply covered by an ornamental top installed sometime in the past. If you look at the kiosk from 1909, **Figure 1**, and the kiosk from today, **Figure 2**, you'll see the difference.

For security purposes, any weather instrumentation recovered would likely go inside the ETHS museum, just a few steps from the kiosk.

This is a rare piece of NWS history and one that we look forward to working with historians to restore and preserve.



**Figure 3:** Arrangement of instruments in kiosk, side view.

1. Rain gage receiver.
2. Iron back plate.
3. Bulb of the six maximum-minimum thermometer.
4. Frame and hairs of hygrometer.
5. Tipping bucket dial indicator.
6. Bulb of exposed thermometer.
7. Thermograph bulb.
8. Plate glass in sash.

*Within 10 years, weather kiosks became the thing to have in your city. The kiosks, which contained weather instruments in a glass window, were considered quite attractive.*

## Thomas Jefferson and 125 Year Family Heritage Awards



From left, NWS Columbia Acting OPL **Doug Anderson**, MIC **Richard Okulski**, SC Assistant State Climatologist **Melissa Griffin**, Observers **Margaret Sease-Jayroe** and **Arthur** and **Jana Jayroe**, and NWS Service Hydrologist **Leonard Vaughan**. Photo by *Newberry Observer* Reporter **Kelly Duncan**.

MIC **Richard Okulski**, NWS Columbia, SC, presented **Margaret Sease-Jayroe** of Little Mountain, SC, with the Thomas Jefferson Award, the highest NWS award presented to an observer. Margaret serves as the third outstanding observer in her family. For the last 56 years, her detailed daily observations have included highs of 107°F, lows of -2°F as well as 3 tornadoes near her station, 7.35 inches of rainfall and 8.3 inches of snowfall.

A retired schoolteacher and author of local history and genealogy publications, she has touched many in the area. Margaret is warmly regarded as an outstanding example of wisdom and service-before self among the Little Mountain community. Margaret's cheerful voice is a daily treat for the staff of NWS Columbia. When asked how she felt about her award, she said "I am deeply honored. I will miss being able to report the weather when I'm no longer able to do so." When asked why she has stayed so faithful to the Cooperative Program, she summed it up nicely: "It becomes a part of your life, just as brushing your teeth does."

Along with her Jefferson Award, Margaret also received a Letter of Commendation from South Carolina Governor **Henry McMaster**. In addition to the Jefferson Award, Margaret was joined by son **Arthur** and daughter-in-law **Jana Jayroe** for presentation of a 125-year Family Heritage Award. Margaret is quick to recognize that the family's station is a team effort.

The Little Mountain station was first established by Margaret's grandfather, **Dr. J. M. Sease** on October 1, 1893. When he died in 1923, **Elberta Sease** continued his legacy. Margaret took over in 1962 after Elberta's death. Others who have assisted in the station's rich and long history include Elberta's brother, **Dr. Claude Sease** and **Etta Hart**, family cook for 57 years. Over this time, the family has become the 5<sup>th</sup> longest actively serving family in the Cooperative Observing Program.

## John Campanius Holm Awards



From left, Observer **Layne Blood** accepts his Holm Award from and NWS Salt Lake City, UT, OPL **Lisa Verzella**. Photo by NWS Western Region Deputy Regional Director **Jeff Zimmerman**.

**Layne Blood** of Angle, UT, was presented the John Campanius Holm Award by NWS Deputy Regional Director **Jeff Zimmerman** and Salt Lake City, UT, OPL **Lisa Verzella**. The award was presented on the Blood ranch with family present.

In addition to 33 years of weather observations, Layne also provides spotter reports within this radar-blocked, rural region, assisting NWS Salt Lake City with warnings and verifications. In 2011, Layne reported a flood event during which 3 inches of rain fell in town, washing out roads and damaging crops.

The Angle station was established in 1981 about a mile away from its current site at the Blood home. The first station observer, **Anna Coon**, took daily manual temperature readings and precipitation observations from a rain gauge still in use today as well as precipitation readings from an automated punch-tape rain gauge.

Layne took over in 1985 and has provided the longest data continuity since the station's inception. He diligently trained his family to assist, assuring uninterrupted observations relied upon by the area's ranching community.

**Dan Bush**, observer at the Perrysville, IN, station in Vermillion County, IN, received the prestigious John Campanius Holm Award while visiting NWS Indianapolis this fall.

Dan, with his 37 years of service to date, has been a model observer, always submitting high quality, detailed, daily weather observations.

Dan goes above the call of duty by also recording dew/frost, present and observation period weather, and providing freehand remarks every day on top of the more usual, required observational elements. He does this service in addition to a full-time job working second shift and running a family farm. Thank you Dan!



From left, NWS Indianapolis, IN, MIC **Dan McCarthy** and Observer **Dan Bush**.

## John Campanius Holm Awards



**Charles Buttrick** of Greenville, NH, was awarded the John Campanius Holm Award for his dedication and quality observations for 28 years.

From left are NWS Gray, ME, Senior Service Hydrologist (SSH) **Thomas Hawley**, Observer **Charles Buttrick**, and MIC **Hendricus Lulofs**. Photo by OPL **Nikki Becker**, NWS Gray, ME.

**Marjorie Evans** of Summit, UT, proudly displays her 2018 Holm Award and stylish embroidered jacket. Marjorie has provided timely, accurate and dependable weather observations to NWS Salt Lake City for 46 years. She has an excellent relationship with the agricultural community in her small, rural town and its surrounding region.

At age 84, Marjorie shows no sign of slowing down or waning in her weather observation enthusiasm. Summit government official Daniel Hulet notes her exemplary community service, including years of volunteering at the local voting precinct and serving as an area Scout and 4H leader. He lauded Marjorie as “living a life of giving.”

The Summit station was established in 1951 a few blocks away from its current site at the Evans home. The first station observer, **Raymond Farrow**, took daily manual precipitation observations from a rain gauge still in use today. Marjorie and her husband Carl took over in 1972, with Marjorie taking over full duties after her husband’s death a few years ago. She has trained her five children to take measurements, relying on them to help maintain uninterrupted observations.



Pictured from left are Observer **Marjorie Evans** and NWS Salt Lake City, UT, OPL **Lisa Verzella**. Photo by NWS Western Region Deputy Regional Director **Jeff Zimmerman**.

## John Campanius Holm Awards

**Brice Lambert** of Ekalaka, MT, was a recent recipient of the John Campanius Holm Award. Brice began reporting daily observations at his business, *The Ekalaka Eagle* on October 1, 1985, and has never missed a daily observation unless there was total equipment failure.

Weather data from this station is vital to the area and is part of the Historical Climate Network with over a 100 years of observations. Ekalaka is one of only six stations in Carter County, a large county of more than 3,300 square miles with a population of just 1200.

Brice has experienced a variety of weather in his 33 year history from -52°F in January of 2016, to a 110°F high in June 1988. The site is dry, with an average annual precipitation since 1948 of just 16.81 inches. Brice's maximum daily rainfall was 3.12 inches in April 2008 and maximum daily snowfall, 15.3 inches in April 2006.



From left are MIC **Keith Meier**, Observer **Brice Lambert**, and Chief, Systems & Facilities Division **Sean Wink**.



From left, NWS Springfield, MO, MIC **Kelsey Angle**, Observer **Mike Meier** and NWS Central Regional Headquarters (CRH) Program Manager **Brian Hirsch**, and OPL **Thomas Olsen**.

**Mike Meier**, of Monett, MO, was given the Holm Award for his outstanding service at the Monett station. The station dates to 1970 when NWS opened the Monett Weather Service Office, providing upper air and radar reports for southwest Missouri. The office closed in 1995 when these functions moved to the NWS Springfield, MO, office. Before it closed, Mike volunteered to take over observing duties.

Mike, a dairy farmer, is always willing to go above and beyond what is expected. In December 2002, Mike reported two snow storms, one produced more than 6 inches of snow and the other produced more than 13 inches. To make this month even more challenging, Mike reported a tornado 6 miles to the west during the Dec. 17-18 tornado outbreak.

## John Campanius Holm Awards



From left, Mayor **Michael Holt**, NWS Deputy Regional Director **Jeff Zimmerman**, Observer **Jay Rogers** and OPL **Lisa Verzella**. Photo by Fillmore City Recorder **Kevin Orton**.

**Jay Rogers** of Fillmore, UT, was presented a Holm Award at a ceremony in Fillmore City Hall. Fillmore Mayor **Michael Holt** joined forces with Deputy Regional Director **Jeff Zimmerman** and NWS Salt Lake City OPL **Lisa Verzella** for the presentation.

Jay's 41 years of observations, spotter reports and work on the Fillmore Water User's Association Board demonstrate his civic-minded focus and dedication to his community and country. Mayor Holt commended Jay for his in-depth knowledge of the town's history, "He loves to tell stories and has a lot to tell."

The Fillmore station dates back to 1893 under the U.S. Weather Bureau and was located just a few blocks from its current site at the Rogers home. The **Starley family** took observations for the first 74 years, recording temperature and measuring precipitation observations.

The Starley's used a rain gauge still in use today. **Cloyd Day** served as the next observer, finally passing the torch to Jay in 1977. Jay's diligent training of family members has enabled him to maintain an uninterrupted record of observations over more than four decades.

**Roy Lee Standefer** of Pikeville, TN, was awarded the John Campanius Holm Award. Roy received this award for his diligence and excellence in providing quality weather observations for more than 32 years. The award was presented by NWS Knoxville/Tricities, TN, OPL **Derek Eisentrout**.





## John Campanius Holm Awards



For nearly 58 years, weather observations have been flowing steadily and accurately from Staffordsville, VA, thanks to **Frank B. Strader Jr.**, a John Campanius Holm Award winner. In addition to supporting NWS Blacksburg, VA, Frank's reports are published by the Crop Weather Program, used by local farmers. In addition to his reports, Frank encourages education for local students on how weather affects their daily lives and how they can be safe when severe weather occurs.

**Frank B. Strader Jr.** is presented his Holm Award during a visit to NWS Blacksburg, VA. Also in attendance, were his son **Bryan** and daughter **Cindy**. Presenting the award is OPL **Nick Fillo**. Photo by MIC **Dave Wert**.

**Billy and Ruthie Wagner** received a Holm Award from NWS Key West, FL, for their 35 years of service on Duck Key. Since 1982, the Wagner's have maintained weather observation records at multiple residences in the Middle Keys. The Wagner family have maintained records through some of the roughest weather conditions in the last few decades, including at least 15 tropical storms or hurricanes.

Billy Wagner's strong advocacy for the NWS is one of the reasons the Key West office remained open during the NWS modernization program. His coordination with the NWS while serving as the director of Monroe County Emergency Management and continued support of the local office in retirement displays his dedication to the NWS mission.



NWS Key West, FL, MIC **Chip Kasper**, right, and OPL **David Ross**, left, presented **Billy and Ruthie Wagner** with the John Campanius Holm Award and a 35 Year Length of Service Award.

## 100 and 75 Year Honored Institution Awards



From left, NWS Springfield, MO, MIC **Kelsey Angle**, CRH Program Manager **Brian Hirsch** and OPL **Tom Olsen**, right, presented **Michael Matthew**, focal point at the **Missouri State Experiment Farm** site in Mountain Grove, MO, with a 100 Year Honored Institution Award. The site, opened on April 4, 1901, was first called **Missouri Fruit Experiment Station**. **Frank Horsfall** was the first weather observer. The station became part of Missouri State University in 1974. The State Fruit Experiment Station continues to promote the Missouri Fruit Industry with research, advisory, education, and public service programs.

From left, NWS Springfield, MO, MIC **Kelsey Angle**, CRH Program Manager **Brian Hirsch** and OPL **Tom Olsen**, right, presented **Steve Fraley**, center left, focal point at the **Missouri University of Science and Technology** in Rolla with a 75 Year Honored Institution Award. On July 23, 1943, the Physics department at the **Missouri School of Mines** re-established the station. On August 1, 1943, **Frank Parkinson** became the first observer. Before that date, weather observations were taken at the airport 13 miles to the north.



NWS Springfield, MO, MIC **Kelsey Angle**, CRH Program Manager **Brian Hirsch** and OPL **Tom Olsen**, right, presented **Travis Hart**, focal point at Lakeside, MO, with the 75 Year Honored Institution Award. Travis works for **Ameren-UE Electric Company** at the **Bagnell Dam**. The dam opened in 1931. Records show more than 20,000 people helped build the dam in just 2 years. Although there were some steam shovels and other powered equipment, most work was done by hand. Pay rates for construction workers were as low as 35 cents an hour. But during the Depression era, these were prized jobs. At the time, Bagnell Dam was an engineering marvel. In addition to electricity, the Lake of the Ozarks is a huge recreation site for those who enjoyed water sports.



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## Edward R. Stoll 50 Year Awards



**William Gregway**, left, of Oswego, NY, shows his Edward H. Stoll award for 50 years of excellent service as an observer. He also received the 50 year Family Heritage Award from NWS Buffalo OPL **Dan Kelly**. Weather observations for Oswego date to January 1944, when they were taken at Fort Oswego, about 3/4 of a mile from Bill's site. In 1870, the U.S. Signal Service established a first order observing site in downtown Oswego, which transitioned to the U.S. Weather Bureau on July 1, 1891.

When the Weather Bureau closed in February 1953, weather observations moved to the Oswego State Teachers College, which became the State University of N.Y. at Oswego.

Finally, the station moved to Bill's house in 1968. Bill has kept meticulous weather records ever since. In addition to his weather observations, he records of natural phenomenon such as fall color reports, the times when local plants and bushes bloom, bird migration patterns, etc. He has many of the old records from the Weather Bureau days as well as his 50-year history. In 1999, Bill was given the Jefferson Award for his passion for weather and commitment to his community.

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## 50 Year Family Heritage Award and 40 Year Service Award

**Jim Hettinger**, left, of Laurelville, OH, has been providing precipitation data to the NWS Wilmington, OH, for 40 years.

Jim carries on a family tradition. In recognition of this commitment, he was also presented with a 50 Year Family Heritage award for the Bowers-Hettinger families. Thank you Jim and family for your dedication and service!

The awards were presented by NWS Wilmington MIC **Kenneth Haydu** and Meteorologist **Ashley Novak** (not pictured). Photo by OPL **James Gibson**.



## Edward R. Stoll 50 Year Awards



**Harold and Gloria Thomson**, right, observers in Richmond, UT, were presented the Edward H. Stoll Award for 50 years of observations. The couple have been taking temperature, precipitation and snow measurements diligently for the past five decades at this rural farming area in northern Utah. The Richmond Coop station was established in 1911 with **J.R. Thomson** at the helm and has been in the Thomson family ever since. Presenting the award is NWS Salt Lake City OPL **Lisa Verzella**, left. Photo by NWS Meteorologist **Alex DeSmet**.

A Family Heritage Award for San Miguel Wolf Ranch was presented to Coop Observer **Peggy Wolf** for her dedicated and steadfast service dating back to 1968. Peggy's family backs up when needed. Rain or shine, the Wolf family maintains the weather gauge. The presentation was made by OPL **Bonnie Bartling**, NWS Oxnard/Los Angeles, CA.



## 50 Year Honored Institution Award



**Denver Water at Gross Reservoir**, in Colorado was awarded a 50 Year Honored Institution Award for dedicated service. Pictured from left are NWS Boulder, CO, Warning Coordination Meteorologist (WCM) **Greg Hanson**, Hydro Facility Operator **Pierre Goetz**, Supervisor **Andy Skinner**, and Hydro Facility Operator **Rich Abbott**. Photo by OPL **Jim Kalina**, NWS Boulder, CO.

## 50 Year Honored Institution Award



**New Mexico State University Agricultural Science Center** in Artesia, NM, received its 50 Year Honored Institution Award. Pictured at the weather station site from left are **Patricia Monk**, **Dr. Robert Flynn**, and **Stephanie Tilton**. Not pictured but valued are the Field Technicians who also contribute to the collection of the data for recording and reporting.

Staff from the **National Park Service Curecanti National Recreation Area at Blue Mesa Lake** received a 50 Year Honored Institution Award from NWS Grand Junction, CO. From left are Chief Ranger **Chris Mengel** and Superintendent **Bruce Noble** receiving the award from NWS Data Acquisition Program Manager (DAPM) **John Kyle, Jr.** Not pictured, but also vital to the program, is **Emily Slayton Keil**, Administrative Officer. Photo by **Sandra Snell-Dobert**, National Park Service.



The **Elberton, GA, Water Plant**, received an Honored Institution Award for 50 years of service. Receiving this award was **Tyron Yeargin**, Chief Plant Operator, left. The award was presented by OPL **Chris Horne**, NWS Greenville-Spartanburg, SC.



## 50 Year Honored Institution Award

The staff at the **Pulaski Water Treatment Plant** in east Tennessee was recently presented the Honored Institution Award for 50 years of continuous weather observations. Pictured accepting the award from left are plant staff members **John Williams, Keith Swecker, Kyle Trail, Duanne Cox, and Gary Jennings**. Photo by NWS Blacksburg, VA, OPL **Nick Fillo**.



The **Indiana American Water Company** in Richmond was honored recently for 50 years of weather observations. From left are NWS Wilmington, OH, Service Hydrologist **Julie Dian-Reed** and Plant Operations Specialist **Darla Paul**. Photo by OPL **James Gibson**. Not pictured are Observers **Paul Kunkel, Brandon Hazelbaker, and Pamela Sells**.

**Denver Water at Ralston Reservoir**, in Colorado was awarded a 50 Year Honored Institution Award for dedicated service to the NWS Coop Program. Pictured from left are **Dueray Evans**, Facilities Operator, and **Greg Hanson**, WCM, NWS Boulder, CO. Facility Operator **Travis Grant**, who also takes weather observations, was not present. Photo by OPL **Jim Kalina**, NWS Boulder, CO.



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## 50 Year Honored Institution Award



NWS Salt Lake City, UT, presented the **Weber Basin Water Conservancy District** with two 50 Year Honored Institution Awards: One each for the Oakley Dam and Wanship Dam weather stations. The stations are managed by General Manager **Tage Flint** and Water Supply and Power Manager **Chris Hogge** as well as the team of observers currently led by Wanship Dam Tender **Chad Montgomery**. The presentation was made by NWS Western Region Acting Cooperative Program Manager **Ryan Eldridge**, NWS Salt Lake City MIC **Rusty Billingsley** and OPL **Lisa Verzella**. The Oakley site was established in 1966 and 2 years later fell under the purview of Weber Basin Water. The Wanship Dam station dates to 1955 with the Bureau of Reclamation at the helm, and was turned over to Weber Basin Water in October of 1968. Pictured are members of the Weber Basin Water Conservancy District along with NWS presenters. Photo by Water District staff.

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## 45 Year Dick Hagemeyer Service Award

NWS Western Region Systems and Facilities Division Chief **Sean Wink** and NWS Billings MIC **Keith Meier** presented **Reverend Willis and Nadine Busenitz** of Busby, MT, with a Dick Hagemeyer Award for 45 Years of outstanding service. Willis has provided timely, accurate and dependable weather data that has totaled nearly 17,000 observations. The Busenitz's report from their home on the Northern Cheyenne Indian Reservation in Busby. They have never missed a daily observation unless there was total equipment failure. The Busby station is one of only five in Big Horn County, which covers more than 5,000 square miles with a population of just 13,000 residents. Weather data from this station is vital to the area. During his tenure, Willis has recorded a low of  $-52^{\circ}$  in December 1983 and a high of  $109^{\circ}$  high in July of 2002. Annual average precipitation since 1948 is 13.55", making it a very dry region.



From left, NWS WR Chief **Sean Wink**, Observers **Nadine and Willis Busenitz**, and NWS Billings MIC **Keith Meier**. Photo by OPL **Larry Dooley**.

## 35 and 30 Year Length of Service Awards



From left, NWS Springfield, MO, MIC **Kelsey Angle**, Observer **Michael Thompson**, Brian Hirsch, CRH and OPL **Tom Olsen**. Michael, whose station is in Morrisville, MO, was presented a 35 Year Length of Service Award.

**Robert and Verda Huber**, right, were presented with a 30 Year Length of Service Award by NWS Glasgow, MT, OPL **Brian Bureson**. Robert and Verda record daily temperatures, precipitation, snowfall and snow depth at their station north of Vida, MT. Photo by WCM **Patrick Gilchrist**.



From left, Observer **Jacquelyn Hudecek**, of Springdale, MT, shows her 30 Year Length of Service Award presented by NWS Billings, MT, OPL **Larry Dooley**. Photo by Electronic Technician **Jeff Bridges**.



## 30 and 25 Year Length of Service Awards



**George Prentiss**, observer at the **Hourglass Reservoir**, and his trusty companion, **Winnie**, were presented with a 30 Year Length of Service Award by OPL **Jim Kalina**, NWS Boulder, CO.



**Winston Sayre** of Indianola, IA, recently received his 30 Year Length of Service Award from OPL **Brad Fillbach**, NWS Des Moines, IA.



**Thomas Kurth** displays his 30 Year Length of Service Award. Official weather observations of rain, snow, and temperature data began in Le Mars, IA, back in March of 1896! The award was presented by NWS Sioux Falls, SD, OPL **Brad Adams**. Tom also has served on the city council in Le Mars. He enjoys hanging out with his grandchildren and is a skilled woodworking craftsman.



**Peter Ames** of Laconia, NH, accepted a 25 Year Length of Service Award. Photo and presentation by OPL **Nikki Becker**, NWS Gray, ME.

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## 25 Year Length of Service Awards



**David Connor** of Meredith, NH, accepted a 25 Year Length of Service Award. Photo and presentation by OPL **Nikki Becker**, NWS Gray, ME.



**Joann Ferguson** of Livingston, MT, was presented a 25 year Length of Service Award by NWS Billings, MT, OPL **Larry Dooley**.



**Jim Goodwin** of Ashland, MT, was presented a 25 Year Length of Service Award by NWS Billings, MT, Hydrometeorological Technician (HMT) **Vickie Stephenson**.



**Edward Kelso**, of Plymouth, IN, accepts a 25 Year Length of Service Award. Photo taken and award presented by OPL **Brentley Lothamer**, NWS Northern Indiana.

## 25 Year Length of Service and Honored Institution Awards



**Amos Yost**, center, observer for Montezuma, KS, was presented with a 25 Year Length of Service Award by MIC **Larry Ruthi**, right, NWS Dodge City, KS, and OPL **Jesse Lee**, left. Photo by WCM **Jeff Hutton**. Amos started the Montezuma station in 1993.



Observers **Bill and Donna Linger**, left and right, accept a 25 Year Length of Service Award from NWS Billings, MT, OPL **Larry Dooley**. Photo by NWS Billings Electronic Technician **Jeff Bridges**.



The **Franklin Township Waste Water Treatment Plant** was presented its 25 Year Honored Institution Award by NWS Indianapolis, IN. The station is known for its high quality observations under the leadership of chief observer **Rick Littleton**, who received a 25 Year Individual Award. Pictured are Laboratory Manager **Sally Brown** and Observer **Rick Littleton**.



NWS presented a 25 Year Honored Institution Award to **John Maursetter**, **Ryan Vanderleest**, and **Ruben Behnke** at South Dakota State University in Brookings. Unofficial records from this site date back to 1888! The award was presented by HMT **Tim Masters**, NWS Sioux Falls, SD.

## 25 Year Honored Institution Awards 20 Year Length of Service Award



Staff from the **Gunnison County Electric Association** receives a 25 Year Honored Institution Award. From left, **Jeff Stanley**, Billing Assistant; **Marcia Wireman**, Chief Financial Officer; **Alanatha Garrison**, Energy Use Specialist; and NWS Grand Junction, CO, DAPM **John Kyle**. Not pictured, **Sherry Booth**, Executive Assistant.



The **Hebron Water Treatment Plant** in Ohio was honored recently for 25 years of weather observations. Pictured from left are MIC **Kenneth Haydu**, NWS Wilmington, OH; Observer **Jason Figgins**; NWS Meteorologist **Ashley Novak**; and Observer **Richard Hone**. Photo by **Ralph Wise**, Village Administrator. Also present was OPL **James Gibson**.



**Kennebec Sanitary Treatment District** in Waterville, ME, accepted a 25 Year Length of Service Award. From left are Observers **Tim Levasseure**, **Lynn Woodard**, **Ron White**, **Derek Vigue** and **Carl Leathers**. Photo by HMT **James F. Brown**, NWS Gray, ME.



**Ted Alexander**, left, observer for rural northwestern Barber County south of Sun City, KS, was presented with a 20 Year Length of Service Award by Dodge City, KS, WCM **Jeff Hutton**. Photo by OPL **Jesse Lee**.

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## 20 Year Length of Service Awards



**Dean Malcolm** of Butler, IN, accepts a 20 Year Length of Service Award. Award presented and photo taken by NWS Northern Indiana OPL **Brentley Lothamer**.



**Judy Rue** of McLeod, MT, was presented a 20 Year Length of Service Award by NWS Billings OPL **Larry Dooley**. Photo by Electronic Technician **Jeff Bridges**.



**Vicky Schwartz** of Big Timber, MT, was presented a 20 Year Length of Service Award by NWS Billings, MT, OPL **Larry Dooley**.



**Greg Stone** of Francesville, IN, accepts a 20 Year Length of Service Award. The award was presented and photo taken by OPL **Brentley Lothamer**, NWS Northern Indiana.

## 15, 10 Year Length of Service Awards



**Lori Dankert**, right, of Perrysburg, NY, is presented with a 15 Year Length of Service Award. Her daughter, **Ashley Campbell** shows her 10 Year Award. Perrysburg is a prime location for Lake Effect Snow, averaging more than 200 inches of snow per year off of Lake Erie. In her 15 years as an observer, Lori has measured a total of 3,251.1 inches of snow! The awards were presented by NWS Buffalo OPL **Dan Kelly**.



**Susan Wood** of Lavina, MT, was presented a 15 Year Length of Service Award by NWS Billings, MT, OPL **Larry Dooley**.

**Manti Radio KMTI** Observer **Larry Masco** was presented with a 15 Year Award. Larry has played an integral role, measuring, recording and training others in observations at this rural site. Photo by NWS Salt Lake City OPL **Lisa Verzella**.



**Susan** and **Michael Lothamer**, right, of Woodburn, IN, show their 10 Year Length of Service Awards. The awards were presented by NWS Northern Indiana OPL **Brentley Lothamer**. Photo taken by **Michelle Lothamer**, Brentley's wife.



From left, NWS Springfield, MO, MIC **Kelsey Angle**, CRH Program Manager **Brian Hirsch** and OPL **Tom Olsen**, right, presented **John Hobbs**, center left, observer in Andersen, MO, with the 10 Year Length of Service Award.

## 10 Year Length of Service Awards



From left, **Luke Harvey** and **Brice Gavin** of the **Decatur, IN, Wastewater Treatment Plant**, accepted 10 Year Length of Service Awards from NWS Northern Indiana. Photo taken by Superintendent **Karey Fuelling**.



**Jeff Krotke** of the **Warsaw, IN, Waste Water Treatment Plant**, accepts a 10 Year Length of Service Award. Award presented and photo taken by NWS Northern Indiana OPL **Brentley Lothamer**.



NWS Great Falls, MT, presented **Mary Messina** with a 10 Year Length of Service Award for taking observations at her official weather station near Lewistown, MT. Photo by OPL **Matt Moorman**.



**Jeannie Stewart** of Placerville, CO, receives her 10 Year Length of Service Award from NWS Grand Junction, CO. Photo by DAPM **John Kyle**.



**Earl Taylor** displays his 10 year Length of Service Award. Earl's station, in Ft Benton, MT, was established in 1894 and moved several times over more than a century. Presenting the award was OPL **Matt Moorman**, NWS Great Falls, MT.



**Willie Wipf** shows his 10 Year Length of Service Award. Willie's station is located near Choteau, MT. Presenting the award was OPL **Matt Moorman**, NWS Great Falls, MT.

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National  
Weather Service  
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# January, February, March Temperature and Precipitation Outlooks From the Climate Prediction Center

