



Cooperative Observer Program Updates

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National Weather Service

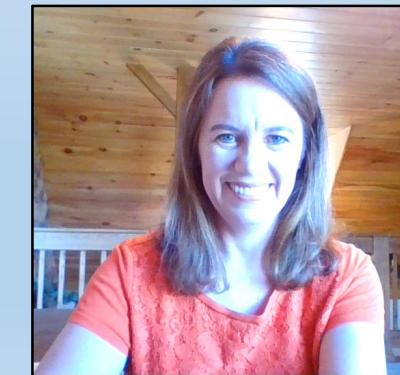
May 2023



2019



2020



2021



2022

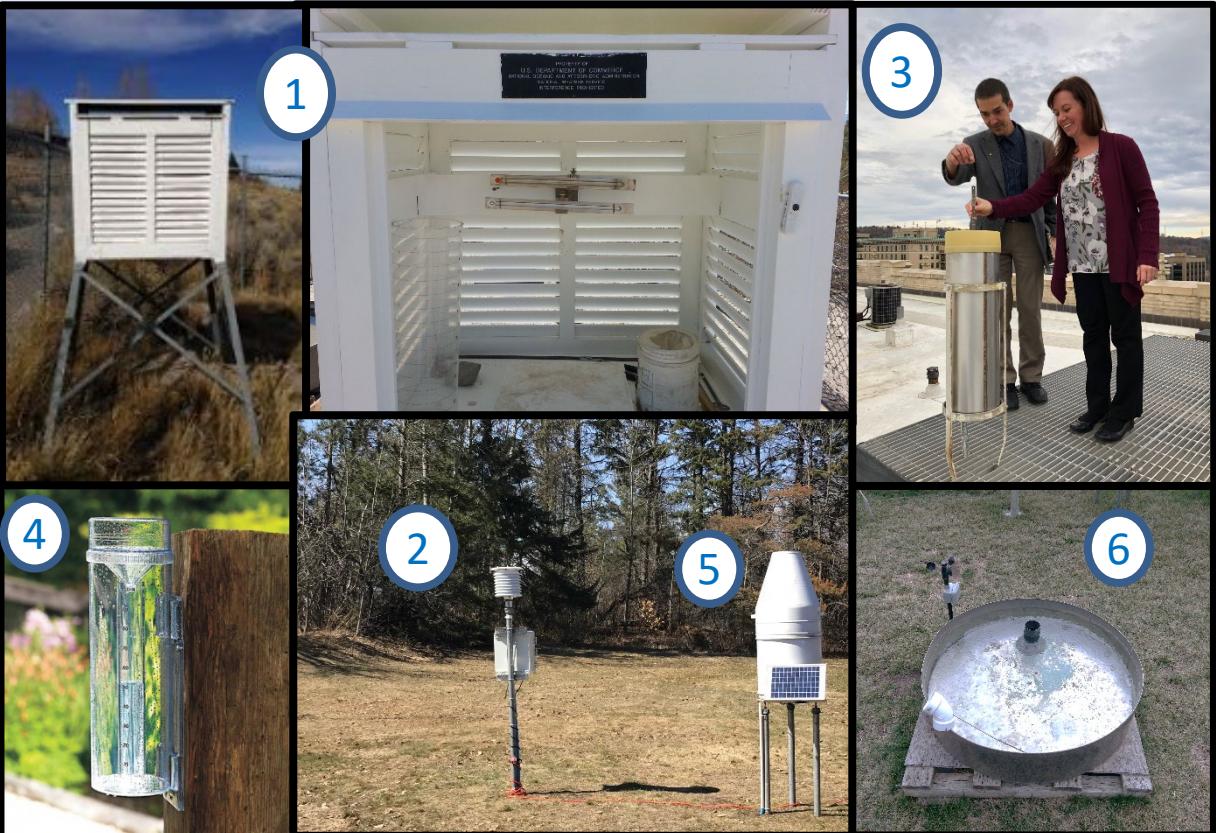


COOP Overview



Equipment used to measure temperature

- 1) Liquid-in-Glass (LIG) thermometers housed in a Cotton Region Shelter (CRS)
- 2) Max/Min Thermometer System (MMTS)



Equipment used to measure precipitation

- 3) Standard 8" Rain Gauge (SRG)
- 4) Plastic 4" Rain Gauge
- 5) Fisher-Porter Rain Gauge

Other equipment used to measure snowfall, snow depth, evaporation (6), and other hydrological elements

COOP Overview



Legend

COOP sites 2023

- A_Network
- PCN
- SUP
- TMP



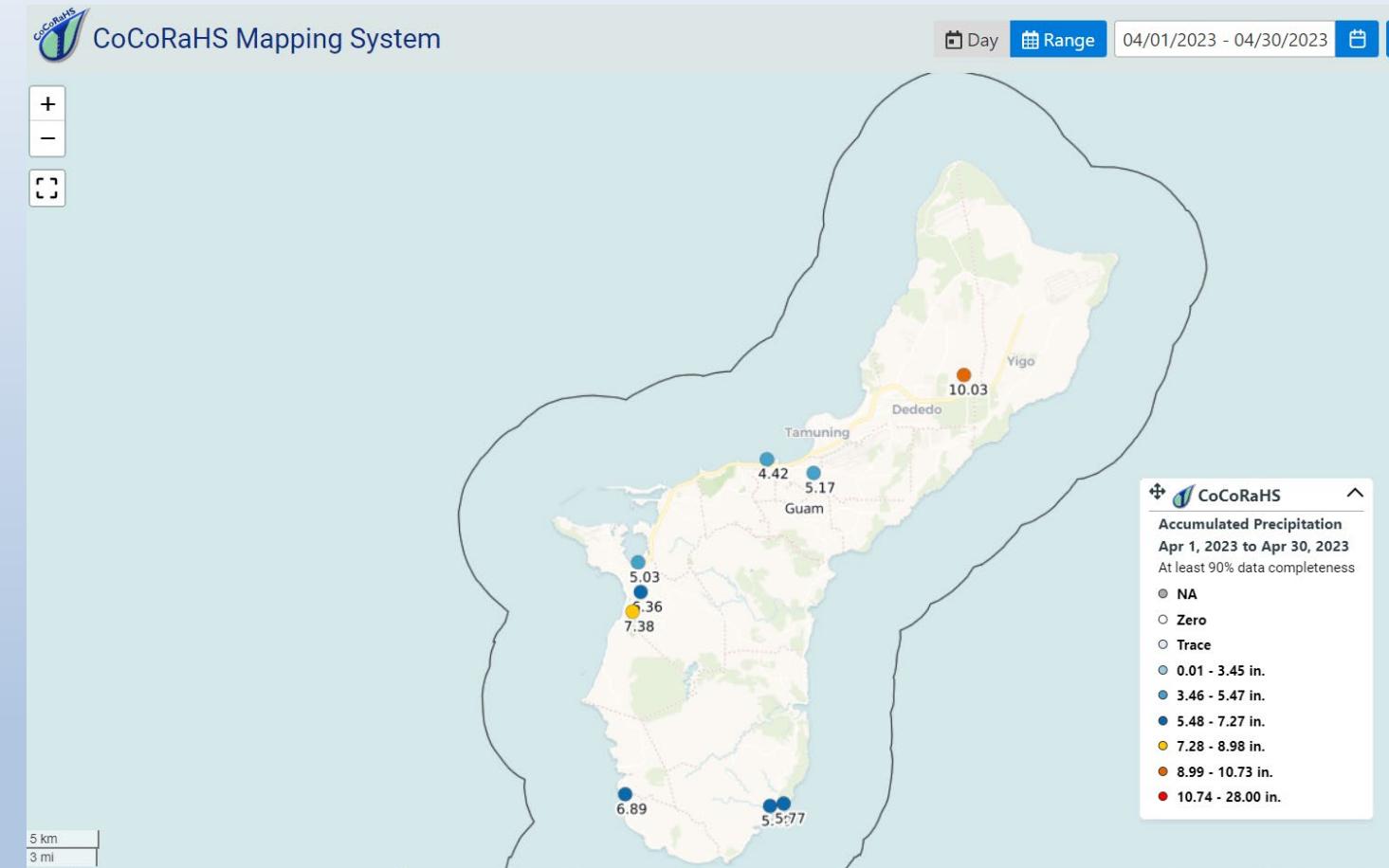
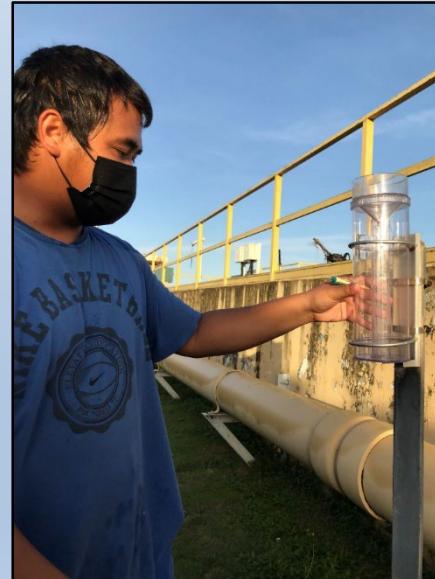


NWS COOP Program Updates



Recent Activities: CoCoRaHS in Guam

- Current Activities – 9 sites reported in April!

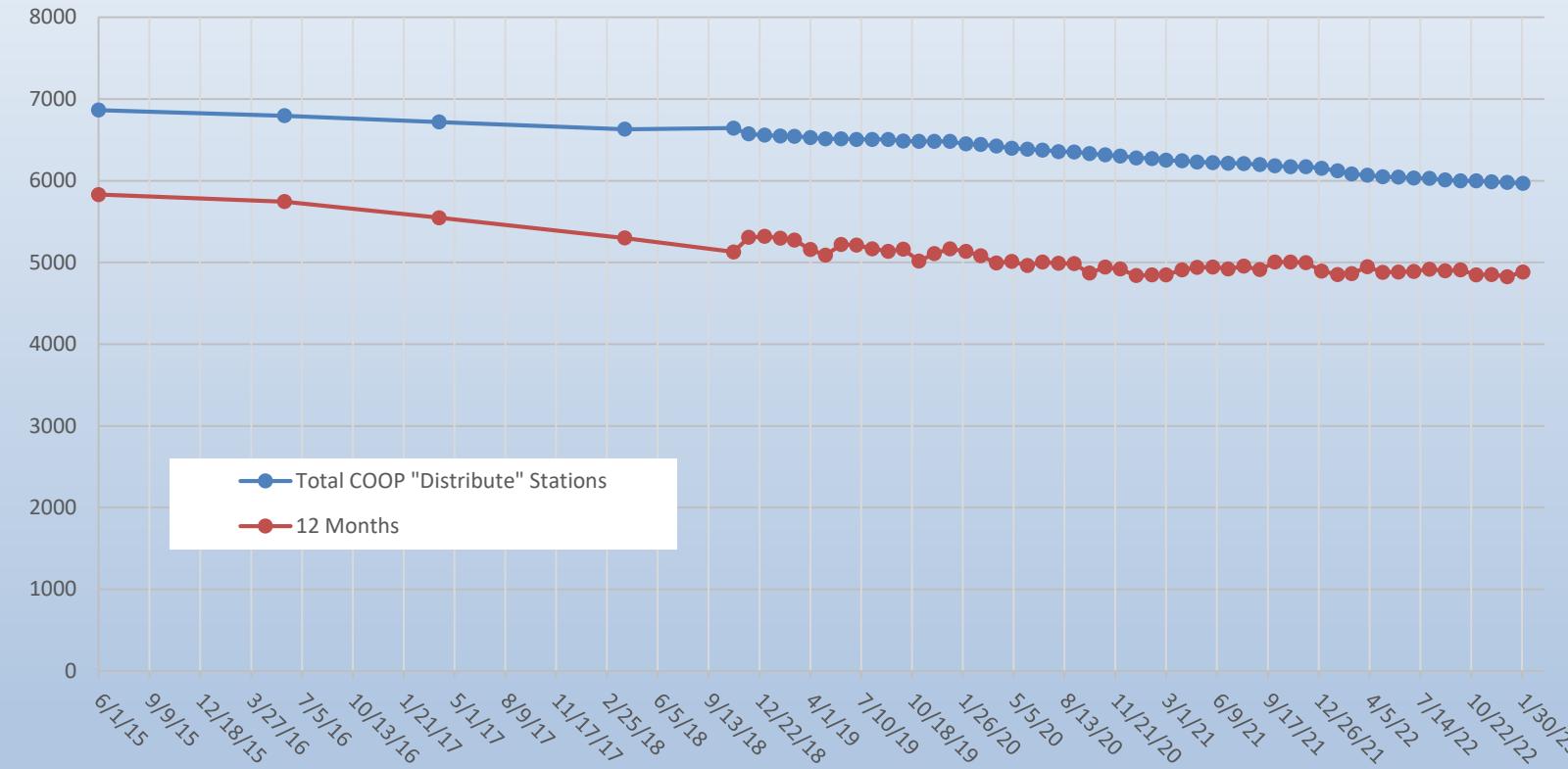




NWS COOP Program Updates



COOP Stations Count from Metadata at NCEI



Graph of daily reported observations (blue) and stations turning in all "12 months" (red) of observations (2014-2023), does not include hourly precipitation data from Fischer Porter Rain gauges (total ~1800 sites receiving regular monthly reports from ~1100)
Data courtesy of NCEI.





NWS COOP Program Updates



Recent Activities: Challenges with restock equipment and supplies

- MMTS
 - Cable
 - Nimbus Displays
 - Lightning Protection (cable grip kits)
 - Connector Plugs
- Parts for the Standard 8" Rain gauge
 - Inner tube
 - Precipitation sticks
- Snow sticks



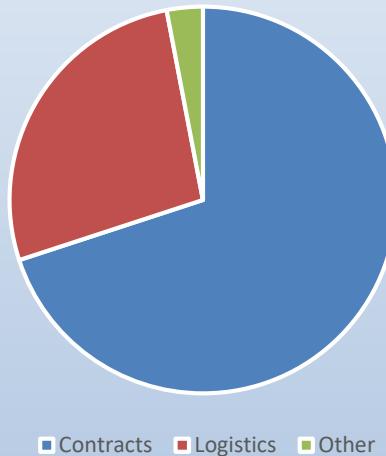


NWS COOP Program Updates

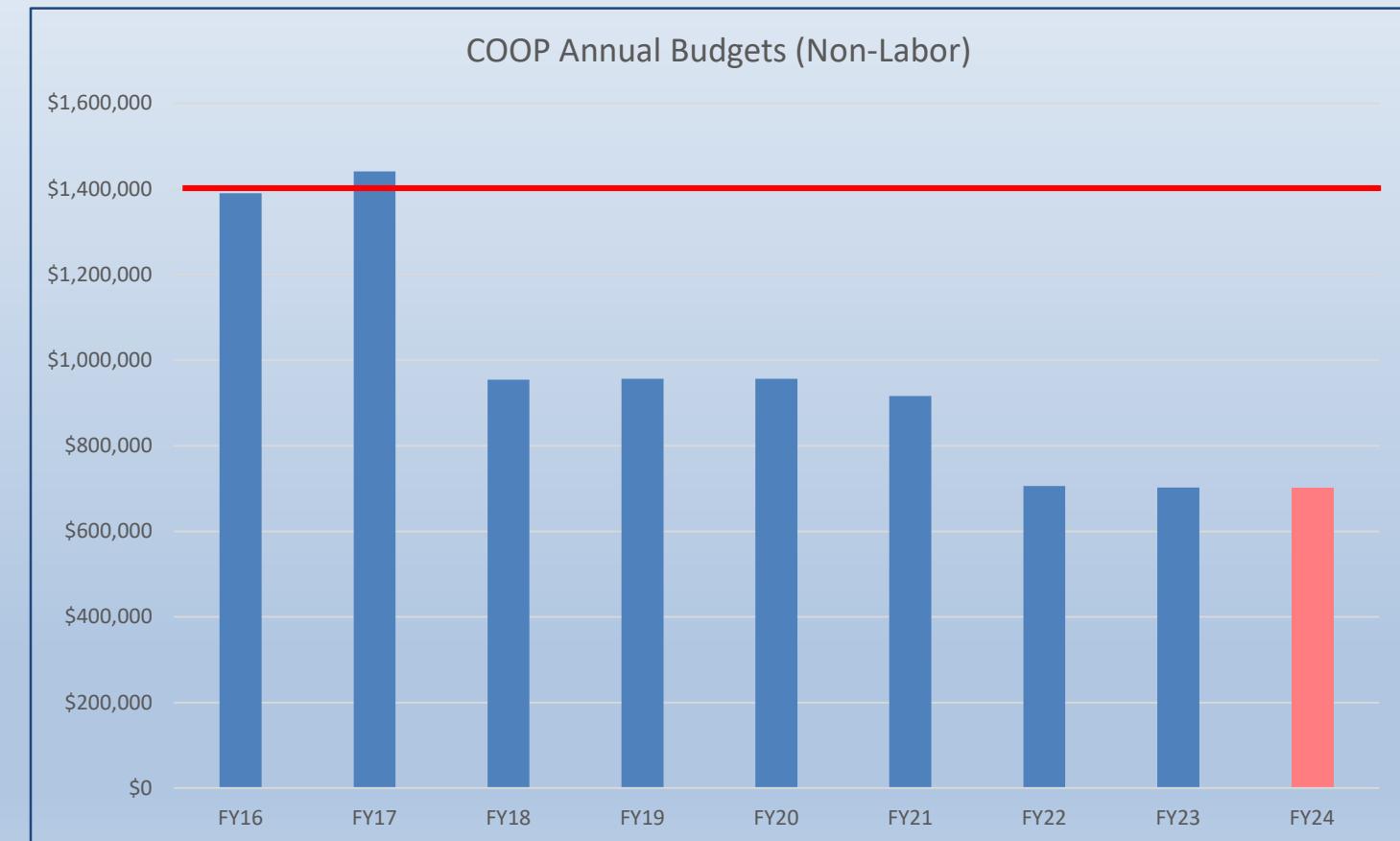


History of COOP HQ O&M Budget

FY23 Budget Breakdown



COOP Annual Budgets (Non-Labor)

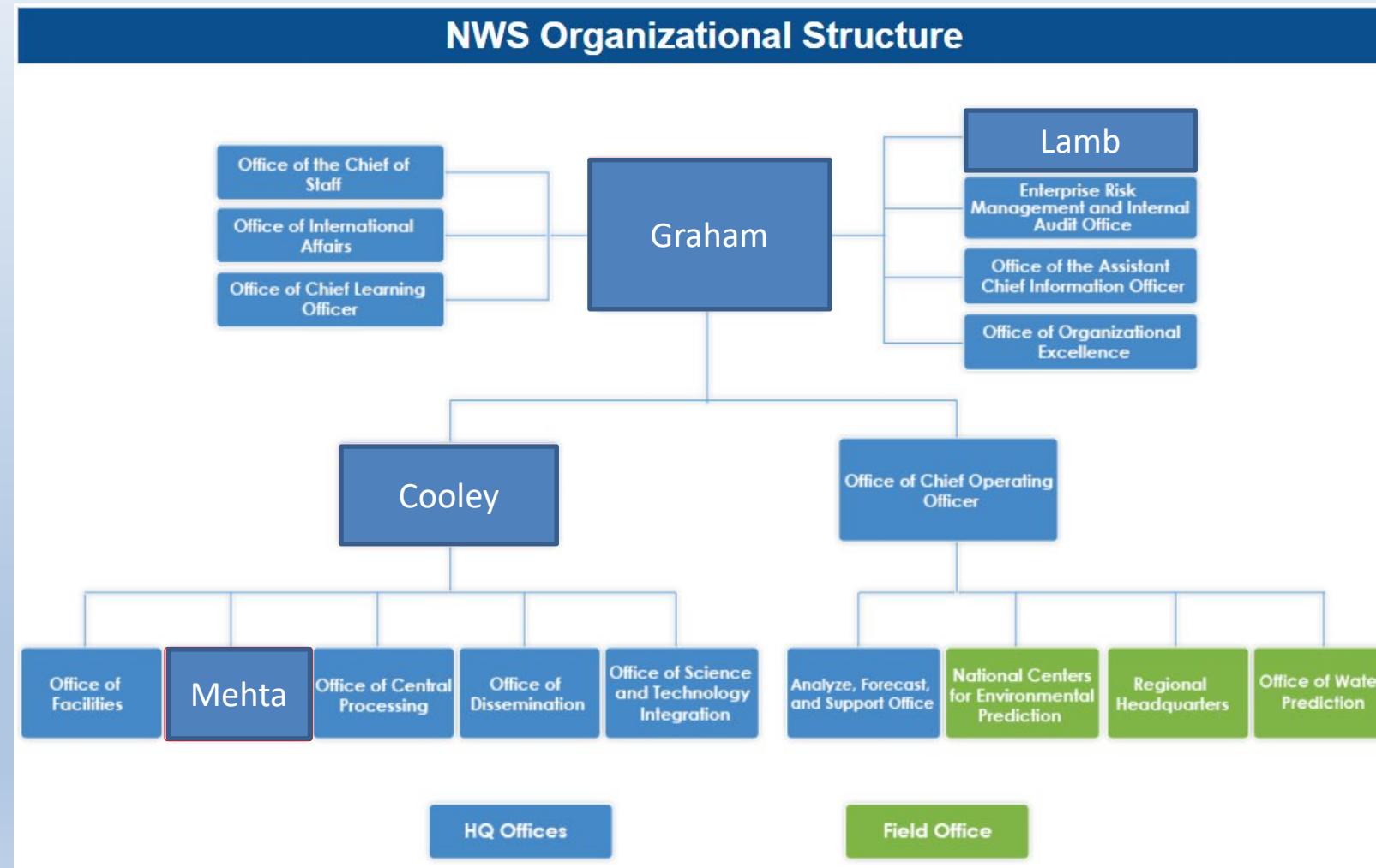




NWS COOP Program Updates



Recent Activities: National COOP Plan...





NWS COOP Program Updates

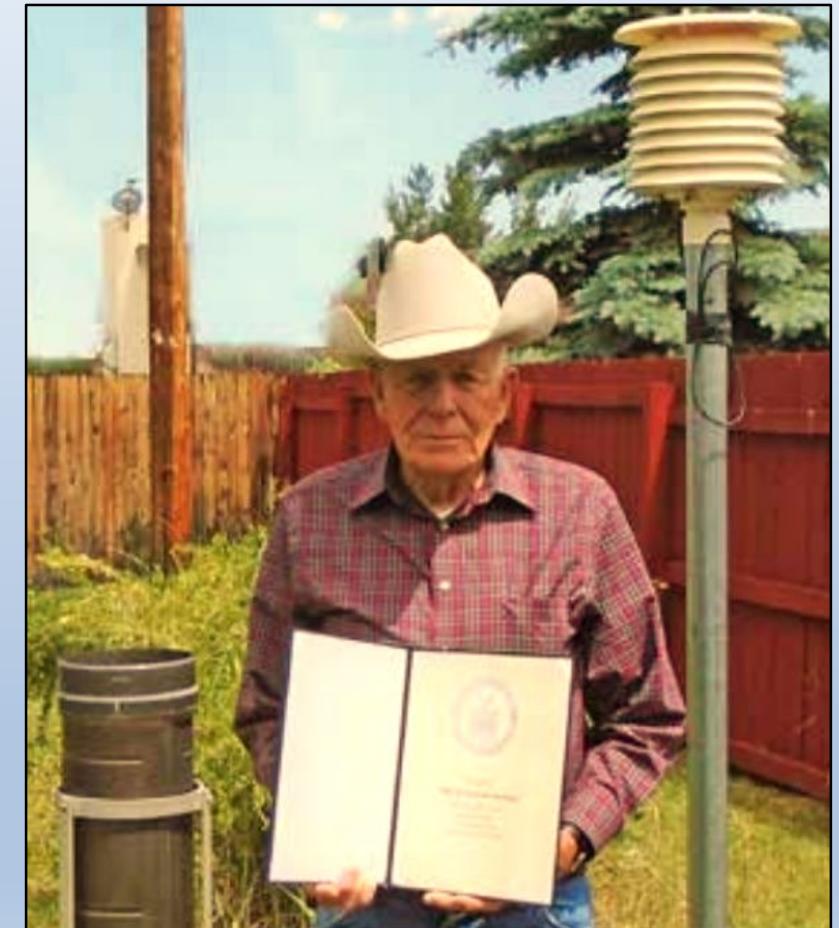


Recent Activities: National COOP Plan

- Four priorities
 - New instrument resolution
 - New software system
 - Workforce
 - Volunteers
- Draft COOP Plan summer 2020
- Briefed COOP Office of Observations July 14, 2020
- Briefed Office of Observations August 30, 2021
- Briefed GAIN Office of Observations June 6, 2022
- Follow-up conversations Fall, 2022
- Requested routing for official approval December 2022

SUAD Division Chief Hired

New plan to be drafted by Spring 2024



Volunteer at Yampa, CO receiving service award





NWS COOP Program Updates



Recent Activities: National COOP Plan

- Current Activities
 - Baseline program – WxCoder Accounts
 - **Market Research**
 - Workforce – OPLs are being hired
 - Seeking funding opportunities



Photos are not a vendor endorsement





Questions?