

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

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- Mesonet Technicians were busy this month with infrastructure upgrades as well as trouble tickets. Their tasks included:
 - Scheduled rotations of 3 wind monitor nose cones
 - PROM upgrades at 5 bases and 1 repeater
 - Enclosure upgrades at 18 Mesonet sites
 - Power upgrades at 3 Little Washita micronet sites
 - The conversion of Rush Springs repeater (RUSHrptr) from solar to AC power
- Dataloggers at the Claremore (CLRM) and Newport (NEWP) Mesonet sites were upgraded to CR23X loggers.
- Soil moisture sensors were installed at 3 ARS Little Washita sites (A152, A153, and A156). These sites now measure soil moisture at depths of 5, 25, and 45 cm.
- Door switches were installed in 3 ARS Little Washita sites.
- The 75 cm soil moisture sensor was decommissioned at the Erick (ERIC) Mesonet site.
- Two ARS Little Washita sites had logger issues – A152 and A156. At most three days of data were lost.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Current	12935	VINI	The sensor has failed
	Current	12959	ADAX	The sensor has developed a high bias
RELH	Current	12961	ACME	Sensor is not reporting values greater than 95%
WDIR	Resolved	12580	HOOK	Replaced sensor that had a directional bias
	Resolved	12583	CAMA	Replaced sensor that had a directional bias
WSPD	Resolved	12740	BOIS	Replaced sensor that had developed a low bias

PRES	Current	12879	HOBA	Sensor is constantly reporting the same value
	Resolved	12882	ALTU	Replaced sensor that was stuck at 984 mb
SRAD	N/A			
RAIN	N/A			
TA9M	N/A			
WS2M	Current	12777	TALI	Sensor reporting erroneous wind gusts
	Current	12790	CLOU	Sensor reporting erroneous wind gusts
	Current	12845	BRIS	Sensor reporting erroneous wind gusts
	Resolved	12846	FREE	Rewired sensor that was not functioning
TS10	N/A			
TB10	Current	12946	OILT	Sensor has developed a low bias
TS05	N/A			
TB05	N/A			
TS30	Current	12916	WEST	Sensor reporting erratic data
	Resolved	12771	CALV	Replaced sensor damaged by gophers
TR05	Current	12893	STUA	Sensor has stopped heating
	Resolved	12883	CALV	Replaced sensor that failed
TR25	Current	12895	SLAP	Sensor has stopped heating
TR60	N/A			
TR75	Current	12673	HASK	Preferential flow, sensor will be decommissioned
	Current	12708	NOWA	Preferential flow, sensor will be decommissioned
	Resolved	12751	ERIC	Decommissioned sensor that failed

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	12858	A150	Tightened loose wires on the sensor
	Resolved	12918	A152	Repaired damaged sensor
RELH	N/A			
SRAD	N/A			
RAIN	Resolved	12889	A150	Cleaned sensor that reported no melt after winter precip. event
	Resolved	12888	A153	Cleaned sensor that reported no melt after winter precip. event
	Resolved	12887	A156	Cleaned sensor that reported no melt after winter precip. event
TS10	N/A			
TB10	N/A			
TS05	N/A			
TB05	N/A			
TS30	N/A			

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	N/A			
TS05	N/A			

TS10	N/A
TS15	N/A
TS30	N/A
VW05	N/A
VW25	N/A
VW45	N/A

Current” tickets are the unresolved tickets as of the last day of the month OR those tickets added based on the Monthly QA analysis.

“Resolved” tickets are the sensor problems that were fixed during the entire month.

Variable	Description
TAIR	Air temperature measured at 1.5 meters
RELH	Relative humidity measured at 1.5 meters
WDIR	Wind direction measured at 10 meters
WSPD	Wind speed measured at 10 meters
PRES	Pressure
SRAD	Incident solar radiation
RAIN	Rainfall
TA9M	Air temperature measured at 9 meters
WS2M	Wind speed measured at 2 meters
TS10	Soil temperature measured at 10 cm under native sod
TB10	Soil temperature measured at 10 cm under bare soil
TS05	Soil temperature measured at 5 cm under native sod
TB05	Soil temperature measured at 5 cm under bare soil
TS15	Soil temperature measured at 15 cm under native sod
TS30	Soil temperature measured at 30 cm under native sod
TR05	Soil moisture: Calibrated DeltaT measured at 5 cm under native sod
TR25	Soil moisture: Calibrated DeltaT measured at 25 cm under native sod
TR60	Soil moisture: Calibrated DeltaT measured at 60 cm under native sod
TR75	Soil moisture: Calibrated DeltaT measured at 75 cm under native sod
VW05	Soil moisture: Volumetric water content measured at 5 cm under native sod
VW25	Soil moisture: Volumetric water content measured at 25 cm under native sod
VW45	Soil moisture: Volumetric water content measured at 45 cm under native sod