

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

October 2014

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- Mesonet technicians completed scheduled rotations of 8 rain gauges (RAIN), 2 batteries (BATV), 10 barometers (PRES), 6 humidity sensors (RELH), 6 pyranometers (SRAD), 4 fasttherms (TAIR/TA9M), 9 wind monitor directions (WDIR), 5 windsentries (WS2M), and 4 wind monitor nose cones (WSPD)
- A failed battery caused the datalogger at the Nowata Mesonet Site (NOWA) to stop taking observations beginning 2014-10-12 1110 UTC. Most data were lost through 2014-10-14 1315 UTC. Battery was replaced 2014-10-15.
- The datalogger at ARS Little Washita Site A249 was replaced due to errant spikes in soil temperature data. Affected data were flagged.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR	Resolved	TAHL	27344	Replaced sensor that had moisture bias.
RELH	Resolved	ALTU	27343	Replaced sensor that had moisture bias.
	Resolved	BUFF	27320	Replaced sensor that had low bias.
WSPD	Resolved	WAUR	27327	Replaced sensor that had ribbon stuck in propeller.
WDIR				
PRES				
SRAD	Resolved	ELRE	27341	Replaced sensor that had large low bias.

RAIN	Resolved	DURA	27345	Cleaned clogged rain gauge.
	Resolved	NINN	27326	Reconnected loose wire.
	Resolved	OKCE	27374	Cleaned rain gauge that missed rain event.
	Resolved	OKEM	27317	Removed spider web from buckets.
	Current	FITT	27393	Gauge missed rain event.
	Current	NOWA	27394	Gauge under-reporting during rain event.
	Current	PRYO	27375	Gauge missed rain event.
TA9M	Current	BRIS	27383	Sensor has low bias during high humidity.
WS2M	Current	ALV2	27372	Starting threshold problem.
TB10	Resolved	APAC	27367	Replaced sensor damaged by rodent.
TS05	Current	WEST	27386	Suspect sensor at incorrect depth.
TS10	Current	PORT	27384	Suspect sensor at incorrect depth.
TS25				
TS60				
TR05	Resolved	FAIR	27324	Replaced sensor that was at incorrect depth.
	Resolved	TISH	27346	Replaced sensor that didn't respond to rain.
TRB10	Resolved	MCAL	27323	Replaced failing sensor.
	Current	KETC	27389	Sensor reports -7999.

TRS10				
TR25	Resolved	SHAW	27240	Replaced sensor that stopped heating.
TR60	Current	FORA	27376	Sensor stopped heating.

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Resolved	A121	27391	Removed spider web from buckets.
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Fort Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
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RAIN				
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

“Current” tickets are unresolved tickets as of the last day of the month OR tickets added after Monthly QA analysis.
“Resolved” tickets are the sensor problems 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
TB10	Soil temperature measured at 10 cm under bare sod
TS05	Soil temperature measured at 5 cm under native soil
TS10	Soil temperature measured at 10 cm under native soil
TS25	Soil temperature measured at 25 cm under native soil
TS60	Soil temperature measured at 60 cm under native sod
TR05	Soil moisture: Calibrated DeltaT measured at 5 cm under native sod
TRB10	Soil moisture: Calibrated DeltaT measured at 10 cm under bare soil
TRS10	Soil moisture: Calibrated DeltaT measured at 10 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
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
V05T	Soil Temperature measured at 5cm under native sod
V25T	Soil Temperature measured at 25cm under native sod

V45T

Soil Temperature measured at 45cm under native sod