

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

August 2014

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Mesonet technicians completed scheduled rotations of 4 rain gauges (RAIN), 10 batteries (BATV), 20 barometers (PRES), 10 relative humidity sensors (RELH), 7 pyranometers (SRAD), 3 fasttherms (TAIR/TA9M), 6 wind direction sensors (WDIR), 4 wind sentries (WS2M), and 4 wind monitor nose cones (WSPD)

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR	Resolved	ARD2	27202	Replaced sensor that reported errant data.
	Resolved	ARD2	27223	Fixed wiring problem that caused errant data.
	Resolved	OKCE	27163	Replaced sensor that had moisture bias.
RELH	Resolved	NRMN	27164	Replaced sensor that had low bias.
WSPD				
WDIR				
PRES				
SRAD	Resolved	MEDF	27215	Cleaned dirty sensor.
	Resolved	PAWN	27199	Replaced sensor that had low bias.
	Resolved	PRYO	27204	Replaced sensor that had low bias.
RAIN	Resolved	HECT	27242	Replaced rain gauge that missed rain event.

	Resolved	HOOK	27203	Replaced damaged cable that prevented rain reports.
TA9M	Resolved	ALV2	27146	Replaced junction box that caused low bias.
WS2M				
TB10	Current	SPEN	27227	Soil moisture and temperature report -7999.
TS05				
TS10				
TS25	Resolved	MANG	27192	Replaced damaged sensor.
TS60				
TR05				
TRB10	Current	SPEN	27227	Soil moisture and temperature report -7999.
	Resolved	RING	27153	Replaced failed sensor.
	Resolved	NINN	27214	Replaced failed sensor.
TRS10	Current	APAC	27213	Sensor not heating.
TR25	Current	SHAW	27240	Sensor not heating.

TR60				
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ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05	Current	A159	27241	Sensor reports errant increases/decreases.
	Resolved	A131	27144	Replaced sensor that reported errant spikes.
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Fort Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05	Resolved	F103	27191	Replaced sensor that reported errant spikes.

VW25				
VW45				
V05T				
V25T				
V45T	Resolved	F103	27190	Replaced sensor that reported errant spikes.

“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 soil
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