

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

September 2013

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- Mesonet technicians performed scheduled rotations of 6 fasttherms (TAIR), 5 pyranometers (SRAD), 4 rain gauges (RAIN), 7 relative humidity sensors (RELH), 16 batteries (BATV), 2 wind monitor nose cones (WSPD), and 1 windsentry (WS2M).
- Datalogger at A244 was replaced due to a datalogger malfunction.
- A failing battery was replaced at Weatherford. Data were not affected.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR	Resolved	WAUR	25544	Replaced sensor damaged by rodents.
RELH	Resolved	MEDI	25545	Replaced sensor affected by moisture.
WSPD				
WDIR				
PRES				
SRAD	Resolved	HASK	25602	Replaced sensor that had low bias..
RAIN	Resolved	BRIS	25598	Removed spider web from clogged gauge.
	Resolved	WILB	24881	Removed vegetation from clogged gauge.
TA9M				
WS2M				

TB10	Resolved	PRYO	24773	Unplugged sensor that had low bias.
	Current	FORA	24772	Sensor has a low bias.
TS10	Current	COOK	25438	Sensor has a low bias.
	Current	WEST	24770	Sensor reports errant spikes in data.
TB05				
TS05	Resolved	JAYX	25519	Unplugged sensor that had low bias.
	Current	APAC	25608	Sensor reports large negative values.
	Current	CHAN	24789	Sensor has a low bias.
	Current	COOK	25157	Sensor has a low bias.
TS30	Resolved	HASK	24797	Unplugged sensor that had low bias.
	Current	BREC	25590	Sensor reports large negative values.
	Current	WATO	25562	Sensor has a low bias.
TR05				
TR25				
TR60	Resolved	ANT2	25540	Replaced sensor reporting errantly low values.
	Current	MANG	25537	Sensor reports large negative values.

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Current	A136	25607	Station reports much less than neighbors.
VW05	Resolved	A131	25549	Replaced sensor that reported errant spikes.
	Resolved	A154	25528	Replaced sensor that reported errant spikes.
VW25	Resolved	A234	25536	Replaced sensor that had a low bias.
	Resolved	A244	25517	Replaced sensor that had a low bias.
VW45	Resolved	A235	25564	Replaced sensor that reported errant spikes.
	Current	A256	25605	Sensor reports errant spikes.
	Current	A282	25606	Sensor reports errant spikes.
V05T				
V25T				
V45T	Resolved	A249	25568	Replaced sensor that had high bias.

ARS Fort Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05				
VW25				

VW45	Resolved	F115	25601	Replaced sensor that reported errant spikes.
V05T	Resolved	F105	25543	Replaced sensor that reported errant spikes.
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
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
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