

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

November 2014

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- Mesonet technicians completed scheduled rotations of 4 batteries (BATV), 4 barometers (PRES), 2 humidity sensors (RELH), 2 pyranometers (SRAD), 3 fasttherms (TAIR/TA9M), 2 rain gauges (RAIN), 2 windsentries (WS2M), and 1 wind monitor nose cone (WSPD)
- A failing battery caused all data to be flagged as suspect at the Hobart Mesonet Site (HOBA) 15-20 November 2014. Data were not lost.
- The battery at Ft. Cobb Micronet Site F112 stopped charging and was replaced. Data were not affected.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH				
WSPD				
WDIR				
PRES	Resolved	NRMN	27411	Fixed loose wire.
SRAD				
RAIN	Resolved	FITT	27393	Removed spider web that clogged gauge.

	Resolved	LAHO	27426	Fixed rain gauge cover that partially came off.
	Resolved	NOWA	27394	Rain gauge under-reported but tested fine.
	Resolved	NOWA	27416	Replaced gauge that sometimes under-reported.
TA9M	Resolved	BROK	27405	Replaced sensor that had bias during high humidity.
	Current	BRIS	27383	Sensor has bias during high humidity.
WS2M	Resolved	ALV2	27372	Replaced sensor that had low bias.
TB10	Resolved	APAC	27367	Replaced sensor damaged by rodent.
TS05	Current	WEST	27386	Sensor has less diurnal variation than 10cm.
TS10	Current	PORT	27384	Sensor has more diurnal variation than 5cm.
TS25				
TS60				
TR05	Current	MANG	27441	Sensor does not moisten/dry as expected.
TRB10	Resolved	KETC	27389	Replaced damaged sensor.
TRS10				

TR25				
TR60	Current	FORA	27376	Sensor does not heat.

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Resolved	A121	27391	Removed spider web that clogged gauge.
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Fort Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
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 sod
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