

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

July 2014

Prepared by Cindy Luttrell and Amanda Ilk
qamgr@mesonet.org

- Mesonet technicians completed scheduled rotations of 4 batteries (BATV), 21 barometers (PRES), 1 rain gauge (RAIN), 5 humidity sensors (RELH), 2 pyranometers (SRAD), 7 fasttherms (TAIR), 8 wind direction sensors (WDIR), 3 windsentries (WS2M), 4 wind monitor nose cones (WSPD).

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR	Resolved	OKCE	27163	Replaced sensor that had a low bias.
	Resolved	TISH	26783	Replaced sensor that had a high bias.
RELH	Current	NRMN	27164	Sensor has low bias during high humidity.
WSPD				
WDIR				
PRES	Resolved	WEST	26907	Replaced barometer that had a high bias.
	Resolved	WIST	26921	Replaced barometer and tubing that was susceptible to water.
SRAD	Resolved	GOOD	26742	Replaced sensor that had a low bias.
	Resolved	BURN	27145	Replaced sensor that had a low bias.

RAIN	Resolved	WEBR	27161	Unclogged rain gauge.
TA9M	Current	ALV2	27146	Sensor has low bias during high humidity.
WS2M	Resolved	BURN	27147	Replaced sensor that had damaged cable.
TB10	Current	RING	27153	Sensor reports -7999.
	Resolved	MEDF	27128	Replaced sensor that had damaged cable.
TS05				
TS10	Resolved	STUA	26782	Replaced rodent damaged sensor.
TS25				
TS60				
TR05				
TR25				
TR60				

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Resolved	A136	27124	Unclogged and mowed tall vegetation obstructing rain gauge.
VW05	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	F104	27155	Replaced sensor that reported errant spikes.
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 soil
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