

OKLAHOMA MESONET / ARS / OKCnet QUALITY ASSURANCE REPORT

December 2009

Prepared by **Cindy Morgan** & **Alex McCombs**
gamgr@mesonet.org

- Mesonet technicians performed scheduled rotations of 4 FastTherms (TA9M), 1 pyranometer (SRAD), and 1 wind sentry (WS2M).
- Battery at Hobart (HOBA) failed causing periods of lost data since 7 January 2010.
- Battery at Arnett (ARNE) failed causing periods of lost data from 7-10 December 2009.
- Battery at Bessie (BESS) failed causing periods of lost data from 8-18 December 2009.
- Aspirator fan at Pauls Valley (PAUL) reported higher than normal values from 22 November – 7 December 2009; 1.5 m air temperature data (TAIR) not affected.
- ARS Watershed Site A153 remains down due to stolen solar panel.
- Fall Pass 2009 results are available under the 'Site Passes' section of the Oklahoma Mesonet website (www.mesonet.org).

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	19178	EUFA	Replaced sensor with moisture induced high bias.
RELH	Current	19527	BIXB	Sensor has low bias during high humidity.
WSPD				
WDIR				
PRES				
SRAD	Resolved	19458	OKEM	Replaced sensor affected by low bias.
	Resolved	19471	NRMN	Replaced sensor affected by high bias.
	Resolved	19509	TIPT	Replaced sensor affected by low bias.
RAIN				
TA9M				

WS2M	Current	19475	MTHE	Sensor reports errantly high wind gusts.
	Current	19515	INOL	Sensor has starting threshold problem.
	Current	19519	VANO	Sensor has starting threshold problem.
	Resolved	19478	BESS	Replaced sensor with starting threshold problem.
	Resolved	19456	KIN2	Replaced sensor with starting threshold problem.
	Resolved	19459	WAUR	Replaced sensor with starting threshold problem.
	Resolved	19514	NINN	Replaced sensor with starting threshold problem.
	Resolved	19517	ARD2	Replaced sensor with starting threshold problem.
TS10	Resolved	19468	EUFA	Replaced sensor with high bias.
TB10	Current	19510	HOLD	Sensor has low bias.
TS05	Current	19511	ELRE	Sensor has low bias.
	Current	19528	BEAV	Sensor has low bias.
	Resolved	19402	ARNE	Replaced sensor with low bias.
	Resolved	19405	EUFA	Replaced sensor with low bias.
	Resolved	19457	WIST	Sensor tested fine during field bath test.
TB05	Current	19460	OILT	Sensor has low bias.
	Current	19530	CHER	Sensor reports large negative spikes in data.
TS30	Current	19516	BREC	Sensor reports errant spikes in data.
	Current	19529	TAHL	Sensor has high bias.
TR05	Current	19518	VANO	Sensor reported suddenly dry soil.
TR25				
TR60				
TR75				

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Current	19140	A162	Rain gauge under reporting rainfall.
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Current	19542	F106	Sensor did not report rainfall when expected.
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

Oklahoma City Micronet QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
PRES				
RAIN				
WSPD				
WDIR				

“Current” tickets are the unresolved tickets as of the last day of the month OR those tickets added based on the Monthly QA analysis.

“Resolved” tickets are the sensor problems that were 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
TR75	Soil moisture: Calibrated DeltaT measured at 75 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 5 cm under native sod
V25T	Soil Temperature measured at 25cm under native sod
V45T	Soil Temperature measured at 45cm under native sod