

# OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

June 2012

Prepared by [Alexandria McCombs](mailto:gamgr@mesonet.org)  
gamgr@mesonet.org

- Mesonet technicians performed scheduled rotations of 2 aspirator fans, 5 batteries (BATV), 3 fasttherms (TAIR), 1 Rain Gauge (RAIN), 17 wind monitors (WDIR), 6 wind monitor nose cones (WSPD) and 2 temperature and relative humidity sensors (RELH).
- Spring Pass was completed on 30 June 2012.

## Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
<b>TAIR</b>				
<b>RELH</b>	Current	23505	CAMA	Sensor has a low bias during high humidity
	Current	23715	SALL	Sensor has a low bias during high humidity
	Current	23717	WILB	Sensor has a low bias during high humidity
	Current	23528	STUA	Sensor has a low bias during high humidity
	Current	23510	MCAL	Sensor has a low bias during high humidity
	Current	23716	HOLD	Sensor has a low bias during high humidity
<b>WSPD</b>	Resolved	23438	MEDI	Sensor damage caused errantly high winds
<b>WDIR</b>				
<b>PRES</b>				
<b>SRAD</b>	Resolved	23433	STIG	Sensor has a low bias
	Resolved	23435	WASH	Sensor has a low bias
	Current	23454	CLOU	Sensor has a low bias
<b>RAIN</b>				
<b>TA9M</b>	Resolved	23340	BURN	Sensor reports errant spikes in data
	Resolved	23360	BURN	Spikes in data continued after replacement
	Resolved	23449	OKCW	Sensor reports errant spikes in data

	Resolved	23331	SLAP	Sensor reports large negative values
WS2M	Resolved	23332	BLAC	Sensor had a starting threshold problem
	Resolved	23434	PORT	Sensor had a starting threshold problem
TS10	Resolved	23342	BUTL	Sensor reported errant spikes in data
	Resolved	23432	OILT	Sensor reported errant spikes in data
	Current	23711	MEDI	Sensor has a low bias
	Current	23713	FREE	Sensor has a low bias
TB10	Resolved	23442	GUTH	Sensor had a low bias
	Current	23707	HINT	Sensor has a low bias
TS05	Resolved	23701	BROK	Sod plot warmer than bare plot
	Current	23703	BREC	Sensor is warmer than bare plot
	Current	23712	COPA	Sensor has a low bias
TB05	Resolved	23343	MEDF	Diurnal cycle is muted due to vegetation
	Resolved	23443	ARD2	Bare plot 100% covered in vegetation
	Resolved	23436	BOIS	Bare plot sensors at incorrect depth
	Resolved	23435	DURA	Bare plot sensors were too shallow
	Current	23706	CAMA	Bare plot has a large diurnal cycle
	Current	23718	APAC	Bare plot has a large diurnal cycle
	Current	23710	STUA	Bare plot has large diurnal cycle
TS30				
TR05	Resolved	23333	BREC	Sensor reports errant spikes in data
	Resolved	23334	TAHL	Sensor reported errant spikes in data
	Current	23448	TAHL	Sensor reports errant spikes in data
	Current	23700	BREC	Sensor reports errant spikes in data
TR25	Current	23704	ARNE	Sensor reporting -7999
TR60				

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### ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Resolved	23412	A282	Rain gauge missed rain event
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

### ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN				
VW05	Resolved	23271	F106	Sensor reported errant spikes in data
	Current	23452	F101	Sensor reports errant spikes in data
VW25	Resolved	23435	F101	Sensor reported errant spikes in data
VW45				
V05T				
V25T				
V45T				

“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
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