

# OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

October 2011

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- Mesonet technicians performed scheduled rotations of 9 Pyranometers (SRAD), 3 Barometers (PRES), 16 Aspirator Fans (FANS), 1 Data logger (LOGG), 5 Rain Gauges (RAIN), 15 Wind Monitor Nose Cones (WSPD), 12 Windsentries (WS2M), and 5 Temperature and Relative Humidity Sensors.
- Fall Pass 2011 began on 1 October 2011

## Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
<b>TAIR</b>				
<b>RELH</b>	Resolved	22330	FTCB	Station hit by tornado
	Current	22327	SKIA	Sensor has a low bias during high humidity
	Current	22326	COPA	Sensor has a low bias during high humidity
<b>WSPD</b>				
<b>WDIR</b>				
<b>PRES</b>				
<b>SRAD</b>	Current	22329	WEBR	Sensor has a low bias
	Current	22328	CHER	Sensor has a low bias
<b>RAIN</b>	Resolved	22306	NOWA	Raingauge missed rain event
<b>TA9M</b>	Current	22291	WIST	Sensor has a high bias
<b>WS2M</b>	Resolved	22287	HASK	Sensor had a starting threshold problem
	Resolved	22289	JAYX	Sensor had a starting threshold problem
	Resolved	22311	SLAP	Sensor had a starting threshold problem
	Resolved	22334	FTCB	Sensor damaged by tornado strike

<b>TS10</b>	Resolved	22293	GRA2	Sensor had a low bias and reporting errant spikes
<b>TB10</b>	Current	21785	BUTL	Sensor has a low bias
	Current	22344	TISH	Sensor has a low bias
<b>TS05</b>	Resolved	22292	BROK	Sensor had a low bias
	Resolved	22295	FREE	Sensor had a low bias
	Resolved	21808	GRA2	Sensor had a low bias
	Current	21620	ALV2	Sensor has a low bias
<b>TB05</b>	Resolved	22290	OKCN	Bare plot 2cm too shallow
	Resolved	22300	CHEY	Sensor had a low bias
	Resolved	21806	COPA	Sensor had a low bias
	Resolved	22322	WALT	Sensor had a low bias
	Current	21764	CHER	Sensor has a low bias
	Current	22294	CAMA	Sensor has a low bias
	Current	22343	TISH	Sensor has a low bias
	Current	22345	ELRE	Sensor has a low bias
<b>TS30</b>	Resolved	22298	ALTU	Sensor reports errant spikes in data
	Resolved	21809	GRA2	Sensor reported errant spikes in data
<b>TR05</b>	Resolved	21782	SPEN	Reports errant spikes in data
	Resolved	21786	BLAC	Sensor did not respond to rainfall
	Resolved	21906	HOLD	Sensor did not respond to rainfall
	Resolved	22317	JAYX	Sensor is not responding to rainfall
	Resolved	22331	FTCB	Lightning strike damaged sensor
	Current	21770	BESS	Soil moisture reporting -7999
	Current	22313	ADAX	Sensor did not respond to rainfall
	Current	22342	CHAN	Reporting erroneous values
	Current	21717	BEAV	Sensor reacts to no rainfall

<b>TR25</b>	Resolved	22297	WEBR	Sensor was not heating
	Resolved	22318	JAYX	Sensor is not reacting to rainfall
	Resolved	22332	FTCB	Lightning strike damaged sensor
	Current	22314	WEBR	Sensor reporting erroneous values
<b>TR60</b>	Resolved	22333	FTCB	Lightning Strike damaged sensor
	Resolved	21607	DURA	Soil Moisture reporting errant data
	Resolved	21725	REDR	Sensor reporting errant values after lightning

### ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
<b>RAIN</b>				
<b>VW05</b>				
<b>VW25</b>				
<b>VW45</b>				
<b>V05T</b>				
<b>V25T</b>				
<b>V45T</b>				

## ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN				
VW05				
VW25	Current	22286	F115	Errant spikes in soil moisture 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