

# OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

April 2011

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

- Mesonet technicians performed scheduled rotations of 3 barometers (PRES), 2 pyranometers (SRAD), 2 soil temperature sensors, 5 temperature and relative humidity sensors (RELH), 1 wind sentry (WS2M), 18 batteries (BATV), and 10 data loggers (LOGG).
- Spring Pass 2011 began on 1 April 2011.

## Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
<b>TAIR</b>				
<b>RELH</b>	Resolved	21281	GUTH	Sensor has a low bias during high humidity
<b>WSPD</b>				
<b>WDIR</b>				
<b>PRES</b>				
<b>SRAD</b>				
<b>RAIN</b>	Resolved	21526	FTCB	Rain gauge did not report rainfall
	Resolved	21534	CHIC	Rain gauge under reported rainfall
<b>TA9M</b>				
<b>WS2M</b>	Resolved	21535	WALT	Sensor damaged by hail storm
<b>TS10</b>	Resolved	21346	WEAT	10cm and 5cm soil temperature were cross wired
	Resolved	21289	NINN	Sensor had a low bias
	Resolved	21296	CLAY	Sensor had a low bias
	Resolved	20794	SHAW	Sensor cable had animal damage
	Resolved	21075	STIG	Sensor had a low bias

<b>TB10</b>	Resolved	21282	WALT	Sensors were 2cm too shallow
	Resolved	20801	MIAM	5cm and 10 cm soil temperature were cross wired
	Resolved	20816	SPEN	Sensors were 3cm too shallow
	Resolved	20814	STIG	Sensor had a high bias
<b>TS05</b>	Resolved	21295	CLAY	Sensor had a low bias
	Resolved	21297	STIG	Sensor had a low bias
<b>TB05</b>	Resolved	20811	BLAC	Sensor had a low bias
<b>TS30</b>	Resolved	21284	CLAY	Sensor had a low bias
<b>TR05</b>				
<b>TR25</b>				
<b>TR60</b>				
<b>TR75</b>				

### ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
<b>RAIN</b>	Resolved	21285	A152	Rain gauge did not report any rainfall in March
<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
<b>RAIN</b>	Resolved	21525	F112	Rain gauge did not report rainfall during event
<b>VW05</b>	Resolved	21283	F113	Faulty sensor caused communications to fail
<b>VW25</b>				
<b>VW45</b>				
<b>V05T</b>				
<b>V25T</b>				
<b>V45T</b>				

“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.

<b>Variable</b>	<b>Description</b>
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