

**OKLAHOMA MESONET / ARS  
QUALITY ASSURANCE REPORT**

February 2014

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- Mesonet technicians completed scheduled rotations of 2 rain gauges (RAIN), 4 batteries (BATV), 2 barometers (PRES), 7 humidity sensors (RELH), 3 pyranometers (SRAD), 1 fasttherm (TAIR), 3 windsentries (WS2M), and 2 wind monitor nose cones (WSPD)
- The multiplexer at the Goodwell Mesonet site (GOOD) causes errant spikes in soil temperature. Affected data are flagged.
- The current excitation at the Tipton Mesonet site (TIPT) causes errant spikes in soil moisture. Affected data are flagged.

**Mesonet QA Report for Standard Variables**

<b>Variable</b>	<b>Status</b>	<b>Site</b>	<b>Ticket</b>	<b>Remarks</b>
<b>TAIR</b>	<b>Resolved</b>	<b>BEAV</b>	<b>25996</b>	<b>Fixed wiring problem that caused errant data.</b>
	<b>Current</b>	<b>FAIR</b>	<b>26054</b>	<b>Sensor has a high bias.</b>
<b>RELH</b>				
<b>WSPD</b>				
<b>WDIR</b>	<b>Resolved</b>	<b>BEAV</b>	<b>26031</b>	<b>Fixed wiring problem that caused errant data.</b>
<b>PRES</b>				
<b>RAIN</b>				

<b>TA9M</b>				
<b>WS2M</b>				
<b>TB10</b>				
<b>TS05</b>	<b>Resolved</b>	<b>STIG</b>	<b>26032</b>	<b>Replotted sensor that was at incorrect depth.</b>
	<b>Current</b>	<b>WATO</b>	<b>26034</b>	<b>Sensor has less diurnal variation than 10cm.</b>
	<b>Current</b>	<b>WAUR</b>	<b>26033</b>	<b>Sensor has less diurnal variation than 10cm.</b>
<b>TS10</b>				
<b>TS25</b>				
<b>TS60</b>				
<b>TR05</b>				
<b>TR25</b>				
<b>TR60</b>				

**ARS Little Washita Watershed QA Report**

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

**ARS Fort Cobb Watershed QA Report**

<b>Variable</b>	<b>Status</b>	<b>Site</b>	<b>Ticket</b>	<b>Remarks</b>
<b>RAIN</b>				
<b>VW05</b>				
<b>VW25</b>				

<b>VW45</b>				
<b>V05T</b>				
<b>V25T</b>				
<b>V45T</b>				

“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.

<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
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