

# OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

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- Mesonet technicians completed scheduled rotations of 5 batteries (BATV), 10 dataloggers (LOGG), 3 barometers (PRES), 11 humidity sensors (RELH), 5 pyranometers (SRAD), 2 rain gauges (RAIN), 3 wind sentries (WS2M), and 3 wind noses (WSPD).
- Soil temperature at 5cm under sod at A154 Micronet Site has more diurnal variation than neighbors. Data are currently flagged.
- Datalogger problem at the F111 Micronet Site caused errant spikes in soil temperature and soil moisture. Replaced Datalogger. Data were flagged.

## Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH				
WSPD				
WDIR				
PRES				
SRAD				
RAIN	Resolved	FTCB	31372	Primary gauge reports less than secondary gauge.
	Current	BRIS	31395	Secondary gauge reports less than primary gauge.

<b>TA9M</b>				
<b>WS2M</b>	<b>Resolved</b>	<b>SLAP</b>	<b>31404</b>	<b>2m reports 0 when 10m reports 4 m/s. Replaced.</b>
	<b>Resolved</b>	<b>WEAT</b>	<b>31389</b>	<b>2m reports 0 when 10m reports 5 m/s. Replaced.</b>
	<b>Current</b>	<b>FAIR</b>	<b>31411</b>	<b>2m reports 0 when 10m reports 4 m/s.</b>
<b>TB10</b>				
<b>TS05</b>				
<b>TS10</b>				
<b>TS25</b>				
<b>TS60</b>				
<b>TR05</b>	<b>Current</b>	<b>NINN</b>	<b>31138</b>	<b>Final temperature increased from 15C to 28C.</b>
<b>TRB10</b>				
<b>TRS10</b>	<b>Current</b>	<b>CENT</b>	<b>31376</b>	<b>Sensor reports -7999.</b>
	<b>Current</b>	<b>CLAY</b>	<b>31417</b>	<b>10cm sod sensor wired into 25cm ports.</b>
<b>TR25</b>				
<b>TR60</b>	<b>Current</b>	<b>BEAV</b>	<b>31388</b>	<b>60cm reports -7999.</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>Resolved</b>	<b>A253</b>	<b>31031</b>	<b>Rain gauge reported zero during rain event. Replaced.</b>
<b>VW05</b>	<b>Current</b>	<b>A121</b>	<b>31402</b>	<b>Sensor does not react well to heavy rain events.</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>Resolved</b>	<b>F110</b>	<b>31137</b>	<b>Rain gauge reported zero during rain event.</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 sod
TS25	Soil temperature measured at 25 cm under native soil
TS60	Soil temperature measured at 60 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 5cm under native sod
V25T	Soil Temperature measured at 25cm under native sod
V45T	Soil Temperature measured at 45cm under native sod