

# OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

March 2016

Prepared by Cindy Luttrell and Amanda Ilk  
qamgr@mesonet.org

- Mesonet technicians completed scheduled rotations of 4 rain gauges (RAIN), 2 batteries (BATV), 5 barometers (PRES), 8 humidity sensors (RELH), 7 pyranometers (SRAD), 1 fasttherm (TAIR), 1 wind sentry (WS2M), and 1 wind monitor nose (WSPD).

## Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH				
WSPD				
WDIR	Resolved	FITT	29349	Errant high wind gusts during precipitation.
PRES	Resolved	WAUR	29288	Barometer flagged on cold nights.
SRAD				
RAIN	Resolved	MCAL	29367	Secondary rain gauge reported less than primary during storm.
	Resolved	STUA	29348	Secondary rain gauge reported 0 when primary rain gauge reported 0.09 inches.
TA9M				

<b>WS2M</b>	<b>Resolved</b>	<b>ELRE</b>	<b>29350</b>	<b>Starting threshold problem; replaced.</b>
	<b>Resolved</b>	<b>MADI</b>	<b>29340</b>	<b>Starting threshold problem; replaced.</b>
	<b>Resolved</b>	<b>GRA2</b>	<b>29344</b>	<b>Starting threshold problem; replaced.</b>
	<b>Resolved</b>	<b>VINI</b>	<b>29345</b>	<b>Starting threshold problem; replaced.</b>
<b>TB10</b>				
<b>TS05</b>	<b>Resolved</b>	<b>CHEY</b>	<b>29272</b>	<b>Suspect sensor is at incorrect depth; reburied.</b>
	<b>Current</b>	<b>WEBR</b>	<b>29346</b>	<b>Suspect sensor is at incorrect depth.</b>
<b>TS10</b>	<b>Resolved</b>	<b>CHEY</b>	<b>29273</b>	<b>Suspect sensor is at incorrect depth; reburied.</b>
<b>TS25</b>				
<b>TS60</b>				
<b>TR05</b>				
<b>TRB10</b>				
<b>TRS10</b>				
<b>TR25</b>				
<b>TR60</b>	<b>Current</b>	<b>NEWK</b>	<b>29271</b>	<b>Sensor is not heating.</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>A148</b>	<b>29373</b>	<b>Rain gauge did not report precipitation when light showers moved over site.</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 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