

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

January 2014

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- Mesonet technicians completed scheduled rotations of 2 barometers (PRES), 3 rain gauges (RAIN), 7 relative humidity sensors (RELH), and 1 pyranometer (SRAD)
- A problem with the Current Excitation at the Tipton Mesonet site (TIPT) causes errant spikes in soil moisture data. Data are flagged for the affected time periods.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR	Resolved	CHIC	25956	Replaced sensor that had high bias.
	Current	BEAV	25996	Sensor sometimes reports errant spikes.
RELH				
WSPD				
WDIR	Current	BEAV	26031	Sensor sometimes errantly reports 0.
PRES				
SRAD	Resolved	COOK	25944	Replaced sensor that had low bias.
RAIN				
TA9M				

WS2M	Resolved	BIXB	25954	Replaced sensor that had rodent damage.
	Resolved	ERIC	25947	Replaced sensor with starting threshold problem.
TB10	Resolved	MAYR	25672	Replaced sensor that reported errant spikes.
TS05	Resolved	BOWL	25949	Reburied sensor that was at incorrect depth.
	Resolved	MANG	25945	Replaced sensor that was at incorrect depth.
	Resolved	PUTN	25728	Replaced sensor that reported errant spikes.
	Current	STIG	26032	Sensor has less diurnal variation than expected.
	Current	WATO	26034	Sensor has less diurnal variation than expected.
	Current	WAUR	26033	Sensor has less diurnal variation than expected.
TS10				
TS25				
TS60				
TR05				
TR25	Resolved	BIXB	25952	Replaced sensor that had rodent damage.
TR60	Resolved	BIXB	25953	Replaced sensor that had rodent damage.
	Resolved	MANG	25537	Decommissioned sensor due to nearby irrigation ditch.

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Fort Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Resolved	F111	25963	Replaced sensor that under reported.
VW05				
VW25				

VW45				
V05T				
V25T				
V45T				

“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.

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
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