

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

December 2013

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- Mesonet technicians completed scheduled rotations of 2 temperature and relative humidity sensors (RELH), 2 fasttherms (TAIR), 8 wind monitor vanes (WDIR), 4 wind monitor nose cones (WSPD), and 2 windsentries (WS2M)
- A problem with the Current Excitation at the Tipton, OK Mesonet site (TIPT) causes spikes in soil moisture data. Affected data are flagged.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR	Resolved	GUTH	25677	Replaced sensor that had a high bias.
RELH	Resolved	TALI	25645	Replaced sensor covered by wasp nest.
WSPD				
WDIR	Resolved	BEAV	25671	Replaced sensor that reported errant spikes.
PRES				
SRAD	Current	COOK	25944	Sensor has low bias compared to neighbors.
RAIN				
TA9M				

WS2M	Current	ERIC	25947	Sensor has a starting threshold problem.
TB10	Current	MAYR		Sensor reports errant spikes.
TS05	Resolved	BOWL	25738	Reburied sensor to correct depth.
	Current	MANG	25945	Suspect sensor at incorrect depth.
	Current	PUTN	25728	Sensor reports errant spikes.
TS10				
TS25				
TS60				
TR05				
TR25				
TR60	Current	MANG	25537	Sensor not reporting values.
TS60				
TR05				
TR25				
TR60				

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				
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 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