

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

October 2013

Prepared by Cindy Luttrell
qamgr@mesonet.org

- Mesonet technicians completed scheduled rotations of 7 rain gauges (RAIN), 7 batteries (BATV), 6 barometers (PRES), 12 hygrometers (RELH), 3 pyranometers (SRAD), 15 fasttherms (TAIR), 9 wind sentries (WS2M), 10 wind monitor nose cones (WSPD), and 9 wind monitor bodies (WDIR)
- The multiplexer at GOOD introduces errant spikes in soil temperature data. Appropriate data have been flagged.
- A problem with the current excitation at TIPT causes errant spikes in soil moisture data. Affected data have been flagged.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR	Resolved	VINI	25615	Replaced sensor damaged by rodents.
	Current	BEAV	25636	Sensor reports errant spikes.
RELH	Resolved	BYAR	25618	Replaced sensor that had low bias.
WSPD				
WDIR				
PRES				
SRAD	Resolved	BLAC	25616	Replaced sensor that had low bias.
	Resolved	HASK	25602	Replaced sensor that had low bias.
	Resolved	KIN2	25625	Replaced sensor that had low bias.
RAIN	Resolved	BRIS	25621	Removed spider web from clogged gauge.

	Resolved	HOBA	25617	Replaced gauge that missed rain event.
	Resolved	WILB	24881	Replaced gauge clogged by vegetation.
TA9M				
WS2M	Resolved	BLAC	25622	Replaced sensor damaged by rodents.
TB10	Resolved	FORA	24772	Disconnected sensor that had low bias.
	Resolved	PRYO	24773	Disconnected sensor that had low bias.
TS10	Resolved	WEST	24770	Disconnected sensor that reported spikes.
	Current	COOK	25438	Sensor has a low bias compared to neighbors.
TB05				
TS05	Resolved	JAYX	25519	Disconnected sensor that had low bias.
	Current	APAC	25608	Sensor reports errantly low values.
	Current	BYAR	25631	Sensor reports errant spikes.
	Current	CHAN	24789	Sensor has a low bias.
	Current	COOK	25157	Sensor has a low bias.
	Current	FITT	25633	Sensor has a low bias.
TS30	Resolved	HASK	24797	Disconnected sensor that had low bias.
	Current	BREC	25590	Sensor reports errantly low values.
	Current	HOLL	25635	Sensor reports errant spikes.
	Current	WATO	25562	Sensor has a low bias compared to neighbors.

TR05				
TR25				
TR60	Resolved	ANT2	25540	Replaced sensor that had moist bias.
	Current	MANG	25537	Sensor reports errantly moist values.

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Resolved	A136	25607	Removed debris from clogged gauge.
	Resolved	A262	25630	No problem found for gauge that missed rain.
	Resolved	A282	25619	Removed debris from clogged gauge.
VW05				
VW25				
VW45	Resolved	A256	25605	Replaced sensor that reported errant spikes.
	Resolved	A282	25606	Replaced sensor that reported errant spikes.
V05T				
V25T				
V45T				

ARS Fort Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN				

VW05				
VW25				
VW45	Resolved	F105	25642	Replaced sensor that had moist bias.
	Resolved	F115	25601	Replaced sensor that had errant spikes.
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
TS10	Soil temperature measured at 10 cm under native sod
TB10	Soil temperature measured at 10 cm under bare soil
TS05	Soil temperature measured at 5 cm under native sod
TB05	Soil temperature measured at 5 cm under bare soil
TS15	Soil temperature measured at 15 cm under native sod
TS30	Soil temperature measured at 30 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