

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

March 2015

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- Mesonet technicians completed scheduled rotations of 8 batteries (BATV), 12 barometers (PRES), 5 rain gauges (RAIN), 8 humidity sensor (RELH), 5 pyranometers (SRAD), 3 windsentries (WS2M), and 5 wind monitor nose cones (WSPD)
- A datalogger problem at Little Washita ARS Site A133 sometimes causes errant spikes in soil data. Data flagged as needed.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR	Resolved	ARD2	28042	Replaced high biased sensor.
RELH				
WSPD	Current	BOWL	28078	Starting threshold problem after severe storm.
WDIR	Resolved	GUTH	27977	Replaced sensor that had faulty grounding.
	Resolved	WASH	28000	Replaced sensor that had faulty grounding.
	Current	APAC	27999	Replaced sensor that had faulty grounding.
PRES				
SRAD				

RAIN	Resolved	ARNE	28041	Repaired cable that was damaged by rodent.
TA9M	Current	WIST	27687	Suspect wasp nest on sensor.
WS2M	Resolved	HOBA	28004	Replaced starting threshold problem sensor.
	Current	KIN2	28003	Sensor has starting threshold problem.
TB10	Resolved	HOOK	28014	Removed tumbleweeds from bare plot.
TS05	Resolved	ALV2	27757	Replotted sensor that was at incorrect depth.
	Resolved	BUTL	27963	Replotted sensor that was exposed.
	Resolved	EUFA	27765	Replotted sensor that was at incorrect depth.
	Resolved	FORA	27761	Replotted sensor that was at incorrect depth.
	Current	WEST	27386	Suspect sensor is at incorrect depth.
TS10				
TS25	Current	MRSB	28066	Sensor reports -7999.
TS60				
TR05	Resolved	MANG	27441	Replaced sensor that didn't react as expected.
	Current	HECT	28060	Sensor does not moisten/dry as expected.

	Current	SKIA	28061	Sensor does not moistened as well as expected.
	Current	TALA	28062	Sensor does not moisten/dry as expected.
	Current	TALI	28063	Sensor has slow response to moisture.
	Current	TISH	28064	Sensor has slow response to moisture.
TRB10	Resolved	WAL2	28065	Replaced sensor that didn't react as expected.
	Current	CAMA	28059	Sensor does not moisten as expected.
TRS10	Resolved	ADAX	27968	Replaced sensor that stopped heating.
	Current	MADI	28073	Sensor reports errantly high soil moisture.
TR25	Current	MRSB	28066	Sensor reports -7999.
TR60	Resolved	FORA	27376	Replaced sensor that stopped heating.

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 soil
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
TRB10	Soil moisture: Calibrated DeltaT measured at 10 cm under bare soil
TRS10	Soil moisture: Calibrated DeltaT measured at 10 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