

OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

November 2016

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- Mesonet technicians completed scheduled rotations of 8 dataloggers (LOGG), 1 barometer (PRES), 1 rain gauge (RAIN), 6 batteries (BATV), 7 humidity sensors (RELH) and, 1 pyranometer (SRAD).
- Battery problems at the Acme Mesonet Site (ACME), Chandler Mesonet Site (CHAN), Clayton Mesonet site (CLAY), and Watonga Mesonet Site (WATO) caused the battery to drop below 12V at night.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH				
WSPD				
WDIR				
PRES				
SRAD				
RAIN	Resolved	CHER	31073	Primary gauge reports less than secondary gauge.
	Resolved	DURA	31036	Primary gauge reports less than secondary gauge.
	Resolved	DURA	31135	Primary gauge reports less than secondary gauge.

	Resolved	OKMU	31046	Primary gauge reports less than secondary gauge.
	Resolved	MIAM	31045	Secondary gauge reports less than primary gauge.
	Current	PUTN	31150	Secondary gauge reports less than primary gauge.
TA9M				
WS2M				
TB10				
TS05	Resolved	BIXB	30999	Suspect sensor is at incorrect depth.
TS10				
TS25				
TS60				
TR05	Resolved	ARD2	30969	Sensor is not moistening to rainfall. Replaced.
	Resolved	DURA	31136	Sensor is slow to moisten to rainfall. Replaced.
	Resolved	OKEM	31024	Sensor is not moistening to rainfall. Replaced.
	Current	NINN	31138	Final temperature increased from 15C to 28C.
TRB10				
TRS10	Resolved	BURN	30968	Sensor's saturated values are drifting. Replaced.

TR25				
TR60	Resolved	STIG	31051	Sensor reporting errant values. Replaced.

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Current	A253	31031	Rain gauge reported zero during rain event.
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Fort Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Current	F110	31137	Rain gauge reported zero during rain event.
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