

OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

April 2016

Prepared by Cindy Luttrell and Amanda Ilk
qamgr@mesonet.org

- Mesonet technicians completed scheduled rotations of 6 rain gauges (RAIN), 2 batteries (BATV), 1 barometer (PRES), 6 humidity sensors (RELH), 4 wind directions (WDIR), 1 fasttherm (TAIR), 1 wind sentry (WS2M), and 1 wind monitor nose (WSPD).

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR	Resolved	NRMN	29481	High bias during high humidity. Replaced.
RELH				
WSPD	Resolved	BYAR	29514	Errant high wind gust during precipitation.
	Current	MINC	29518	Errant high wind gusts during precipitation.
WDIR	Resolved	FITT	29468	Errant high wind gusts during precipitation. Replaced
PRES	Resolved	PRYO	29467	Barometer samples sometimes errantly high.
SRAD				
RAIN	Resolved	HOBA	29452	Primary rain gauge reported 0.02 inches during heavy thunderstorm. Secondary gauge reported over 1 inch.
	Resolved	ACME	29485	Secondary rain gauge reported 0 when primary rain gauge reported 0.4 inches.

	Resolved	PUTN	29484	Secondary rain gauge reported 0 when primary rain gauge reported 0.5 inches.
TA9M				
WS2M				
TB10				
TS05	Resolved	WEBR	29346	Suspect sensor is at incorrect depth; reburied.
TS10				
TS25				
TS60				
TR05	Resolved	TAHL	29382	Sensor reports -7999. Replaced.
	Current	BLAC	29536	Sensor is slow to moistened and dries out fast.
TRB10				
TRS10	Current	TIPT	29517	Sensor does moisten as much as expected when exposed to moisture. Moist extreme gradually changes over time.
TR25				

TR60	Resolved	NEWK	29271	Sensor is not heating. Replaced.
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ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05				
VW25				
VW45	Current	A133	29483	All sensor voltages stepped down to values near 0.
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 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