

OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

February 2016

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

- Mesonet technicians completed scheduled rotations of 9 rain gauges (RAIN), 10 batteries (BATV), 1 datalogger (LOGG), 5 barometers (PRES), 18 humidity sensors (RELH), 6 pyranometers (SRAD), 3 fasttherms (TAIR), 5 wind sentries (WS2M), and 5 wind monitor nose (WSPD).
- The Primary Battery (BATV) at Haskell Mesonet site (HASK) was unable to hold charge overnight. Data were lost 05:30-14:45 UTC 5 February 2016 and 07:15-14:25 6 February 2016. Rain data were flagged.
- Tulsa Mesonet site (TULN) 1.5-m air temperature radiation shield stopped working, causing air temperature to be warmer than expected on sunny days. Air temperature data were flagged 18-22 February 2016.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH				
WSPD				
WDIR				
PRES	Current	WAUR	29288	Barometer flagged on cold nights.
SRAD				
RAIN	Resolved	ACME	29334	Primary gauge reports more than expected; replaced gauge cover.

	Resolved	TISH	29276	Primary gauge reports more than expected; replaced.
TA9M				
WS2M	Resolved	ACME	29338	Starting threshold problem; replaced.
	Resolved	MADI	29340	Starting threshold problem; replaced.
	Current	GRA2	29344	Starting threshold problem.
	Current	VINI	29345	Starting threshold problem.
TB10	Resolved	TULN	29270	Suspect sensor is at incorrect depth; reburied.
TS05	Resolved	CHEY	29272	Suspect sensor is at incorrect depth; reburied.
	Current	WEBR	29346	Suspect sensor is at incorrect depth.
TS10	Resolved	CHEY	29273	Suspect sensor is at incorrect depth; reburied.
TS25				
TS60				
TR05	Resolved	ALV2	28901	Sensor does not moisten as expected; replaced.
	Resolved	APAC	28948	Poor response to saturated soil; replaced
	Resolved	CHIC	28949	Poor response to saturated soil; replaced.
TRB10				
TRS10				

TR25	Resolved	TALI	29293	Sensor not heating; replaced.
TR60	Current	NEWK	29271	Sensor is not 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 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