

**OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT**

February 2015

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- Mesonet technicians completed scheduled rotations of 12 batteries (BATV), 10 barometers (PRES), 7 rain gauges (RAIN), 9 humidity sensor (RELH), 4 pyranometers (SRAD), 2 windsentries (WS2M), and 3 wind monitor nose cones (WSPD)
- A wiring problem at the Walters Mesonet Site (WAL2) caused the aspirator fan to not work from 6-9 February 2015. Affected air temperature (TAIR) data were flagged.
- A datalogger problem at A133 sometimes causes errant spikes in soil data. Affected data are flagged as needed.
- Ft. Cobb Micronet station F115 was removed January 2015 and reinstalled at a different location in February. The new station is named F215.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH				
WSPD				
WDIR	Current	APAC	27999	Sometimes causes errantly high gusts.
	Current	GUTH	27977	Sometimes causes errantly high gusts.
	Current	WASH	28000	Sometimes causes errantly high gusts.

PRES				
SRAD	Resolved	SEIL	27629	Replaced low biased sensor.
RAIN	Current	TALI	27751	Secondary rain gauge misses rain events.
TA9M				
WS2M	Current	HOBA	28004	Starting threshold problem.
	Current	KIN2	28003	Starting threshold problem.
TB10	Current	HOOK	28014	Less diurnal variation than sod plot.
TS05	Resolved	BUTL	27764	Replotted sensor that was too deep.
	Resolved	BUTL	27963	Replotted exposed sensor.
	Current	ALV2	27757	Suspect sensor at incorrect depth.
	Current	EUFA	27765	Suspect sensor at incorrect depth.
	Current	FORA	27761	Suspect sensor at incorrect depth.
	Current	WEST	27386	Suspect sensor at incorrect depth.
TS10				
TS25				

TS60				
TR05	Current	MANG	27441	Sensor does not moisten or dry as expected.
TRB10				
TRS10	Current	ADAX	27968	Sensor stopped heating.
TR25				
TR60	Current	FORA	27376	Sensor 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 soil
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