

**OKLAHOMA MESONET / ARS / OKCnet
QUALITY ASSURANCE REPORT**

March 2009

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- Mesonet technicians performed scheduled rotations of 7 rain gauges (RAIN) and 3 wind monitors (WSPD).
- Aspirator fan at Mount Herman (MTHE) Mesonet Site affected air temperature data from 21 January – 16 March 2009.
- The Kingfisher (KING) Mesonet Site was moved on 5-6 March 2009 to a new location in Kingfisher County (KIN2).
- The Calvin (CALV) Mesonet Site was decommissioned on 18 March 2009.
- A power problem at the Bessie (BESS) Mesonet Site caused all data to be lost from 0005 UTC 7 March 2009 – 2225 UTC 8 March 2009 and 0800 – 1920 UTC 10 March 2009.
- Air temperature, relative humidity and solar radiation sensors were removed from 8 ARS Fort Cobb Watershed Sites, soil temperature transitioned to 5, 25, and 45cm.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH	Current	18581	OKCE	Sensor has a 4-6% low bias
	Current	18582	CLRM	Sensor has a low bias during high humidity
	Resolved	18379	HOLL	Sensor has a low bias during high humidity
WSPD				
WDIR	Resolved	18467	KIN2	WDIR had a 13 degree low bias
PRES				
SRAD				
RAIN	Resolved	18468	IDAB	Spider webs blocking rain gauge
	Resolved	18066	SHAW	Sensor replaced for low field drip test (Rotation)
TA9M	Resolved	18376	GRA2	TA9M will deviate from TAIR and TSLO

WS2M	Current	18546	ALTU	Sensor developed a starting threshold problem
TS10				
TB10	Current	18584	HOOK	Bare plot may not be bare
	Resolved	18377	SKIA	Rodent damaged sensor cable
TS05				
TB05	Current	18830	NEWK	Bare plot may be shallow
	Current	18585	TALI	Sensor has a low bias
TS30				
TR05	Current	18474	VINI	Fractional water reporting negative numbers
TR25				
TR60				
TR75				

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN				
VW05	Resolved	18513	A148	Voltages near zero, tightened wires
	Resolved	18475	A148	Voltages reporting near 0, sensor replaced
VW25	Current	18586	A131	Errant data spikes in VW25, not affecting V25T
VW45				
V05T				
V25T				

V45T	

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
SRAD				
RAIN				
TS05				
TS10				
TS15				
TS30				
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

Oklahoma City Micronet QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
PRES				
RAIN				
WSPD				
WDIR				

“Current” tickets are the unresolved tickets as of the last day of the month OR those tickets added based on the Monthly QA analysis.

“Resolved” tickets are the sensor problems that were 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
TS10	Soil temperature measured at 10 cm under native sod
TB10	Soil temperature measured at 10 cm under bare soil
TS05	Soil temperature measured at 5 cm under native sod
TB05	Soil temperature measured at 5 cm under bare soil
TS15	Soil temperature measured at 15 cm under native sod
TS30	Soil temperature measured at 30 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
TR75	Soil moisture: Calibrated DeltaT measured at 75 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 5 cm under native sod
V25T	Soil Temperature measured at 25cm under native sod
V45T	Soil Temperature measured at 45cm under native sod