

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

January 2009

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- Mesonet technicians performed scheduled rotations of 4 rain gauges and 2 wind vanes
- The Multiplexer at F115 ARS Ft. Cobb Watershed Site caused errant data in TS10 and TS30 from December 13, 2008 – January 2, 2009.
- Air temperature, relative humidity and solar radiation sensors were removed from 12 ARS Little Washita Watershed sites, soil temperature transitioned to 5, 25, and 45cm.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	18008	KING	Rodent chewed cable in half
	Resolved	18038	HOBA	Incorrect wiring corrected
RELH	Current	18139	CAMA	Sensor has a 4% high bias
WSPD				
WDIR	Current	18142	FITT	Sensor has a 15 degree high bias
	Resolved	17991	WATO	Sensor had a 13 degree high bias
PRES	Resolved	18116	NRMN	Barometer power reset to resolve problem
SRAD				
RAIN	Current	18066	SHAW	Field drip tests 2-4 tips low for past year
TA9M				
WS2M	Current	18036	TALI	Sensor reports values much larger than WSPD
TS10				

TB10	Resolved	18035	COPA	Sensor had a low bias
TS05				
TB05	Current	18137	COOK	Sensor may be shallow
	Current	18138	SKIA	Sensor has a 1.5C low bias
TS30				
TR05				
TR25				
TR60				
TR75				

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	16985	A144	Sensor failing, sensor removed
RELH	Resolved	17177	A149	Sensor had a low bias, sensor removed
SRAD				
RAIN				
TS05	Resolved	17134	A133	Sensor had a low bias, sensor removed
	Resolved	17677	A152	Sensor had a low bias, sensor removed
TS10				
TS15				
TS30				
VW05				

VW25	
VW45	
V05T	
V25T	
V45T	

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH	Current	18136	F101	Sensor has a low bias during high humidity
SRAD				
RAIN				
TS05	Current	17325	F110	Sensor has a low bias
TS10				
TS15	Current	18016	F105	Sensor has a high bias
TS30				
VW05				
VW25				
VW45	Resolved	17887	F108	Sensor replaced due to questionable data

Oklahoma City Micronet QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH	Resolved	17886	KSW108	PTU susceptible to moisture, sensor replaced
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