

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
October 2008

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- Mesonet technicians performed scheduled rotations of 64 fasttherms, 15 pyranometers, 7 rain gauges, 7 soil temperature sensors, 16 temperature and relative humidity sensors, 5 wind monitor nose cones, 3 wind vanes, 32 wind sentries, and 2 barometers
- Aspirators were installed at 58 sites
- Power Upgrades were completed at 20 sites
- The multiplexer at Hobart is causing spikes in soil temperatures beginning September 17, 2008
- The Multiplexer at Beaver is causing soil temperature and soil moisture to report large negative values beginning October 20, 2008
- The datalogger at Copan caused air temperature at 1.5m and 9m to have a high bias from October 9 -23, 2008.
- Fall Pass 2008 began on October 1, 2008

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	17293	KETC	Kangaroo rats chewed through sensor cable
	Resolved	17292	KING	Rodent damage
RELH	Resolved	17294	EUFA	Sensor knocked out of shield by cows
WSPD	Current	17676	ACME	Sensor has a starting threshold problem
	Resolved	17229	TISH	Sensor had a starting threshold problem
WDIR	Resolved	17321	KING	Sensor replaced for low bias
PRES	Resolved	17437	TISH	Sensor replaced for spikes in data
SRAD				
RAIN	Resolved	17442	EUFA	Rain gauge not level due to cows in site
	Resolved	17523	MRSB	Rain gauge does not tip
	Resolved	17522	CLRM	Rain gauge grass covered, missed rain event

TA9M				
WS2M	Current	17675	VANO	Sensor has a starting threshold problem
	Current	17678	MANG	Sensor has a starting threshold problem
	Resolved	17267	STIG	Sensor had a starting threshold problem
	Resolved	17227	FAIR	Spider webs wrapped around sensor
	Resolved	17305	CENT	Sensor had a starting threshold problem
	Resolved	17679	PUTN	Sensor had a starting threshold problem
	Resolved	17688	NEWP	Sensor had a starting threshold problem
TS10	Current	17543	RETR	Sensor is reporting large negative numbers
	Resolved	17663	CALV	Sensor cable damaged by mice
TB10	Resolved	17539	CENT	Bath test determined sensor had low bias
TS05	Current	17291	CHEY	TS05 has developed a low bias
	Current	17544	PAWN	Sensor is reporting large negative numbers
	Current	17692	BESS	TS05 has a low bias
	Current	17326	APAC	Sensor has a low bias
	Resolved	17210	FREE	Sensor damaged
	Resolved	17230	CLAY	Sensor had low bias
	Resolved	17250	COOK	Sensor has a low bias
TB05	Current	17495	BUTL	TB05 has developed a low bias
	Resolved	17093	CLOU	Sensor had low bias
	Resolved	17146	SHAW	Sensor had a low bias
TS30	Resolved	17550	CALV	Sensor cable damaged by mice
TR05	Current	17333	GRA2	Sensor stopped heating
TR25	Resolved	17025	FREE	Sensor cable damaged by gopher
TR60				

TR75	

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	Current	16985	A144	Sensor reporting large negative numbers
RELH	Current	17177	A149	Sensor has a low bias during high humidity
SRAD				
RAIN				
TS05	Current	17134	A133	Sensor has a low bias
	Current	17677	A152	Sensor has a low bias
TS10				
TS15				
TS30				
VW05				
VW25				
VW45				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				

SRAD				
RAIN	Resolved	17494	F112	Bad switch caused ghost rain tips
TS05	Current	17325	F110	Sensor has a low bias
	Resolved	17268	F112	Sensor had a low bias and gopher damage
TS10				
TS15				
TS30				
VW05	Current	17674	F111	Data stuck at 0, sensor failing
	Resolved	17044	F104	Soil moisture did not react to rain event
VW25				
VW45	Resolved	16958	F108	Loose wires

“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