

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
 May 2008

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- Mesonet technicians performed scheduled rotations of 1 barometer, 3 rain gauges, 1 temperature and relative humidity sensor, 7 wind vanes, 3 wind monitor nose cones, and 2 wind sentries.
- Power upgrades were completed at 3 sites.
- The datalogger at Kenton is causing errant data for air temperature at 1.5 and 9 m. Data have been affected since 0930 UTC 4 April 2008.
- A datalogger problem at May Ranch is causing errant data for soil moisture variables. Data affected since 2230 UTC 16 April 2008.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	Current	16412	CHEY	Sensor failing
	Resolved	16260	REDR	Cows disconnected sensors
	Resolved	16411	BIXB	Replaced failing sensor
WSPD	Resolved	16161	MIAM	Replaced failing sensor
	Resolved	16162	PORT	Replaced failing sensor
WDIR	N/A			
PRES	N/A			
SRAD	Current	16466	SLAP	Sensor has a low bias
	Resolved	16410	VINI	Replaced sensor damaged by rodent
RAIN	Resolved	16163	SPEN	Removed clog from rain gauge

	Resolved	16168	IDAB	Replaced malfunctioning rain gauge
TA9M	Current	16465	PERK	Sensor has a low bias
WS2M	N/A			
TS10	Resolved	16210	GRA2	Fixed wiring problem
TB10	N/A			
TS05	Resolved	15979	WILB	Replaced failed sensor
	Resolved	16261	CLRM	Replaced sensor with bias
TB05	N/A			
TS30	Resolved	16166	TIPT	Replaced failing sensor
	Resolved	16138	MANG	Replaced failing sensor
TR05	Resolved	16041	GRA2	Replaced sensor damaged by rodent
TR25	Current	16167	FREE	Reporting out of range values
TR60	Resolved	15907	STUA	Replaced Failing Sensor
TR75	N/A			

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			

SRAD	Resolved	16402	A134	Sensor remounted disconnected sensor
RAIN	Resolved	16165	A121	Removed spider web from rain gauge
TS05	N/A			
TS10	N/A			
TS15	Current	16467	A159	Sensor has developed a bias
TS30	N/A			
VW05	N/A			
VW25	N/A			
VW45	Current	16469	A132	Sensor reporting failing values

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	N/A			
TS05	N/A			
TS10	N/A			
TS15	N/A			
TS30	Resolved	16001	F112	Replaced failing sensor

VW05	N/A
VW25	N/A
VW45	N/A

“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