

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT April 2008

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- Spring pass began in April. In addition to conducting routine maintenance at the sites, the technicians resolved over 200 trouble tickets. Their tasks included:
 - Scheduled rotations of 1 barometer, 1 fasttherm, 2 pyranometers, 6 rain gauges, 7 wind vanes, 1 wind monitor nose cone, 4 wind sentries
 - Power upgrades at 18 sites
- A lightning struck at the Claremore Mesonet site (CLRM) on 8 April 2008. The strike damaged the datalogger, radio, and soil temperature sensors. All observations were lost from 0700 on the 8th through 1850 UTC on the 10th.
- The Webbers Falls Mesonet site (WEBB) was moved to a new location 17 April 2008. The new site id for the Webbers Falls site is WEBR.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
WSPD	Current	16161	MIAM	Sensor reports values less than like sensor
	Current	16162	PORT	Sensor reports values less than like sensor.
	Resolved	15814	CAMA	Replaced damaged sensor
	Resolved	15943	SPEN	Replaced damaged sensor.
	Resolved	15950	SKIA	Tightened loose wire.
WDIR	Resolved	16187	MEDF	Replaced damaged sensor.
PRES	Resolved	15945	COOK	Replaced dirty tubing that caused sensor bias.
	Resolved	15927	WIST	Replaced barometer that had random bias.
SRAD				

Variable	Status	Ticket	Site	Remarks
RAIN	Current	16168	IDAB	Gauge did not report rainfall.
	Resolved	15944	ADAX	Removed spider web clog from gauge.
TA9M				
WS2M	Resolved	16007	MARE	Replaced sensor damaged by storm.
	Resolved	16014	TISH	Replaced damaged sensor.
TS10	Resolved	15982	TALI	Replaced sensor with low bias.
	Resolved	15981	HUGO	Replaced sensor with low bias.
TB10	Resolved	16098	NEWK	Replaced sensor with low bias.
TS05	Current	15979	WILB	Sensor reports errant spikes in data.
TB05				
TS30	Current	16138	MANG	Sensor reports errant data.
	Current	16166	TIPT	Sensor reports errant data.
	Resolved	15980	TIPT	Tightened wires for sensor that reported spikes.
TR05	Current	16041	GRA2	Sensor reports out-of-range values.
TR25	Current	16167	FREE	Sensor reports out-of-range values.
	Resolved	15854	BUTL	Replaced sensor damaged by gopher.
	Resolved	16020	MRSH	Replaced damaged sensor.
TR60	Current	15907	STUA	Sensor failed.
TR75				

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
SRAD				
RAIN	Current	16465	A121	Gauge did not report rainfall.
	Resolved	15946	A153	Repaired gauge that stopped working.
TS05				
TS10				
TS15				
TS30				
VW05				
VW25				
VW45				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
SRAD				

Variable	Status	Ticket	Site	Remarks
RAIN	Resolved	15910	F105	Removed spider web clog from gauge.
	Resolved	15911	F111	Removed spider web clog from gauge.
TS05				
TS10				
TS15				
TS30				
VW05				
VW25				
VW45				

“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