

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
August 2005

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- The Mesonet Technicians resolved over 140 tickets this month, despite the unseasonable rain that occurred. Their work included:
 - Scheduled rotations of 13 FastTherms, 3 barometers, 12 wind sentries, and 2 prop anemometers
 - RFModem prom upgrades at 42 Mesonet sites, bases, and repeaters
 - Decommissioning of the 75 cm soil moisture sensor at the Hobart site
- At the Fort Cobb Watershed, all soil moisture sensors were wired to the datalogger. Thus, the start of soil moisture data for this micronet.
- A lightning strike occurred at Mt. Herman on 16 Aug 2005. The site was minimally affected.
- A problem developed at Grandfield causing sporadic data losses for five days. Data were affected from 20 August through 25 August 2005.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Current	12214	WALT	Sensor reporting out-of-range values
	Current	12224	OKMU	Sensor has developed a high bias
	Resolved	12078	VINI	Replaced sensor that had developed a high bias
RELH	Resolved	12039	BURN	Replaced sensor that was reporting out-of-range values
	Resolved	12100	APAC	Replaced sensor that had failed
	Resolved	12106	COOK	Replaced sensor that had failed
WDIR	Resolved	11652	MANG	Replaced sensor that had a directional error
	Resolved	12055	BOWL	Replaced sensor that was getting stuck
WSPD	Resolved	11773	HOOK	Replaced sensor that was not reporting wind speed
	Resolved	12037	TISH	Replaced sensor that had developed a starting threshold problem

PRES	Resolved	12108	ALTU	Cleaned tube that was plugged
	Resolved	12151	CLAY	Replaced sensor that had failed
SRAD	Resolved	12115	MTHE	Replaced sensor that had been damaged by lightning
RAIN	N/A			
TA9M	N/A			
WS2M	Current	12101	BESS	Sensor had developed a starting threshold problem
	Current	12188	KETC	Sensor has developed a starting threshold problem
	Resolved	12021	OKEM	Tightened wires on the sensor
	Resolved	12057	HUGO	Replaced sensor that had developed a starting threshold problem
	Resolved	12090	APAC	Replaced sensor that had developed a starting threshold problem
TS10	Resolved	12022	MIAM	Replaced sensor that had developed a high bias
	Resolved	12120	MTHE	Replaced sensor that had been damaged by lightning
TB10	Resolved	12121	MTHE	Replaced sensor that had been damaged by lightning
	Resolved	12142	GOOD	Reinstalled sensor that was at the wrong depth
	Resolved	12171	COPA	Replaced sensor that had developed a low bias
TS05	Current	12213	ANTL	Sensor appears to have developed a high bias
	Resolved	12113	CLOU	Replaced sensor that had developed a high bias
	Resolved	12054	HOBA	Reinstalled sensor that was too deep
TB05	Resolved	11770	GOOD	Reinstalled exposed sensor
TS30	N/A			
TR05	Resolved	11644	BESS	Current excitation replaced which solved data problems
TR25	Resolved	11681	BESS	Current excitation replaced which solved data problems
	Resolved	11646	BIXB	Replaced sensor that had failed

TR60	Resolved	11645	MIAM	Replaced sensor that had stopped heating
TR75	Resolved	12020	HOBA	Sensor decommissioned

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	Resolved	12125	A136	Fixed sensor that had missed a few rain events
TS10	N/A			
TB10	N/A			
TS05	N/A			
TB05	N/A			
TS30	N/A			

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	N/A
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