

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
September 2005

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- The Mesonet Technicians resolved over 170 tickets this month. Their work included:
 - Scheduled rotations of 16 FastTherms, 5 temperature and relative humidity sensors at the Little Washita Micronet, 9 wind sentries, and 4 prop anemometers
 - RFModem prom upgrades at 17 Mesonet sites, ARS sites, bases, and repeaters
 - Decommissioning of the DURA base on 8 September
- At the Little Washita Watershed, four more ARS sites were decommissioned. The sites were A122, A147, A160, and A163. There are now 20 ARS sites in the Little Washita.
- A new radiation calibration center (NNET) was installed on North Base in Norman.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Current	12378	VINI	Sensor reporting out-of-range values
	Resolved	12283	KENT	Replaced sensor that was reporting erratic dips in temperature
	Resolved	12224	OKMU	Replaced sensor that had developed a high bias
	Resolved	12297	SKIA	Replaced sensor that had developed a high bias
	Resolved	12214	WALT	Replaced sensor that had failed
RELH	N/A			
WDIR	N/A			
WSPD	N/A			
PRES	N/A			
SRAD	Resolved	12286	MTHE	Replaced sensor that had developed a high bias
RAIN	N/A			
TA9M	Resolved	12296	SKIA	Replaced sensor that had developed a high bias
	Resolved	12225	LANE	Replaced sensor that had reported random dips in temperature

WS2M	Resolved	12101	BESS	Replaced sensor that had developed a starting threshold problem
	Resolved	12188	KETC	Replaced sensor that had developed a starting threshold problem
	Resolved	12258	FTCB	Replaced sensor that had developed a starting threshold problem
	Resolved	12202	MARE	Replaced sensor that had developed a starting threshold problem
TS10	N/A			
TB10	Resolved	12280	BIXB	Replaced sensor that had developed a low bias
	Resolved	12171	COPA	Replaced sensor that had developed a low bias
	Resolved	12281	HOOK	Replaced sensor that had developed a low bias
	Resolved	12372	VINI	Replaced sensor that had developed a low bias
TS05	Current	12379	WASH	Sensor reporting spikes in temperature
	Resolved	12213	ANTL	Sensor appeared to have a high bias, but field tests showed it was fine
TB05	Current	12327	MAYR	Sensor has developed a high bias
	Resolved	12215	COPA	Replaced sensor that had developed a low bias
	Resolved	12325	HOOK	Replaced sensor that had developed a high bias
	Resolved	12211	WIST	Replaced sensor that had developed a low bias
TS30	N/A			
TR05	Resolved	11466	MAYR	Noise has been removed from data
TR25	Resolved	12062	ADAX	Sensor replaced, preferential flow eliminated
TR60	N/A			
TR75	N/A			

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	Resolved	12328	A154	Removed vegetation that was blocking sensor
RAIN	Resolved	12175	A121	Fixed gauge that was under-reporting
	Resolved	12253	A131	Fixed gauge that was broken (no data affected)
	Resolved	12152	A134	Fixed gauge that had missed some rain events
	Resolved	12261	A134	Fixed gauge that had missed some rain events
TS10	N/A			
TB10	N/A			
TS05	N/A			
TB05	N/A			
TS30	Resolved	12278	A136	Replaced sensor that was reporting temperature spikes

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	Current	12380	F111	Sensor appears to be clogged

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