

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
January 2007

Prepared by **Peter K. Hall, Jr.** & **Cindy Morgan**
gamgr@mesonet.org

- Freezing rain/sleet events on the 12-14th and other winter weather events kept the Mesonet Technicians indoors most of the month. Also, wind data at nearly 70 Mesonet sites were flagged because of the frozen precipitation.
- 3 barometers were rotated
- Results from Fall Pass 2006 are now available online: <http://www.mesonet.org/sitepass>

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	Current	14620	TISH	Sensor does not compare well with neighbors
	Resolved	14619	EUFA	Fixed damaged sensor
	Resolved	14618	FITT	Fixed damaged sensor
	Resolved	14588	ERIC	Replaced sensor that was impacted by moisture
	Resolved	14589	RETR	Replaced sensor that was impacted by moisture
	Resolved	14635	BURN	Repaired sensor that was damaged by cows
WSPD	Current	14617	KENT	Sensor may have been damaged by ice
	Resolved	14616	BIXB	Repaired sensor
	Resolved	14609	MEDI	Replaced sensor that was damaged by ice
WDIR	N/A			
PRES	N/A			
SRAD	N/A			

RAIN	Resolved	14643	TAHL	Checked gauge that miss some rain events - possibly frozen
TA9M	Resolved	14595	GRA2	Fixed wiring on sensor
WS2M	Current	14613	MTHE	Sensor reporting anomalous spikes in gust data
	Current	14614	CLOU	Sensor reporting anomalous spikes in gust data
	Current	14615	STUA	Sensor has developed a starting threshold problem
TS10	Current	14649	HINT	Sensor has developed a low bias
TB10	Current	14647	VINI	Sensor has developed a low bias
	Resolved	14634	BYAR	Returned sensor to correct depth
	Resolved	14637	BURN	Leveled soil that was disturbed by animals
TS05	Resolved	14598	OKEM	Replaced sensor that had developed a low bias
TB05	Current	14596	MEDF	Sensor has developed a low bias
	Current	14648	LAHO	Sensor has developed a low bias
	Resolved	14633	BYAR	Returned sensor to correct depth
	Resolved	14636	BURN	Leveled soil that was disturbed by animals
TS30	Resolved	14601	VINI	Replaced sensor that had developed a low bias
TR05	N/A			
TR25	N/A			
TR60	N/A			
TR75	N/A			

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	N/A			
TS05	Current	14644	A121	Sensor has developed a low bias
TS10	N/A			
TS15	Current	14611	A136	Sensor reporting erratic data
TS30	N/A			
VW05	Current	14612	A134	Sensor reporting erratic data
VW25	N/A			
VW45	N/A			

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	Resolved	14590	F114	Cleaned gauge that was clogged

TS05	Resolved	14592	F101	Reinstalled sensor
	Resolved	14594	F115	Replaced sensor that had developed a low bias
TS10	N/A			
TS15	N/A			
TS30	N/A			
VW05	N/A			
VW25	Resolved	14591	F103	Rewired sensor
VW45	Resolved	14599	F113	Rewired sensor

“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