OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT

December 2010

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- Mesonet technicians performed scheduled rotations of 7 aspirator fans, 7 barometers (PRES), 10 dataloggers (LOGG), 5 fasttherms (TA9M), 5 temperature and relative humidity sensors (RELH), 5 wind monitors (WSPD), 3 wind vanes (WDIR) and 9 windsentries (WS2M).
- ARS Watershed Sites A250, A253, A256 and A244 were installed in December 2010; ARS Watershed Sites A282, A262 A249, A234 and A235 have been installed during January 2011.
- Fall Pass 2010 was completed in December 2010

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH	**Resolved**	**20534**	**GRA2**	**Sensor has a low bias during high humidity**
	Resolved	**20533**	**COPA**	**Sensor had a low bias during high humidity**
	Current	**20704**	**CLAY**	**Sensor has a low bias during high humidity**
WSPD	**Resolved**	**20546**	**MEDI**	**Wind monitor had obstruction cause malfunction**
	Current	**20729**	**OILT**	**Sensor has a starting threshold problem**
WDIR				
PRES				
SRAD				
RAIN	**Resolved**	**20612**	**NEWK**	**Spider web caused rain gauge to miss rain event**
TA9M				
WS2M				
TS10				

TB10	**Resolved**	**20477**	**BIXB**	**Sensor reported errant data due to cut wire**
	Resolved	**20537**	**COPA**	**Sensor had a high bias**
	Current	**20611**	**ALV2**	**Diurnal cycle muted and follow sod temperatures**
TS05	**Resolved**	**20478**	**BIXB**	**Sensor reported errant data due to cut wire**
	Resolved	**20391**	**BUTL**	**Sensor had a low bias**
	Resolved	**20366**	**MIAM**	**Sensor had a low bias**
	Current	**20535**	**BEAV**	**Sensor has a low bias**
TB05				
TS30	**Resolved**	**20479**	**SEIL**	**Sensor had a low bias**
	Resolved	**20480**	**HINT**	**Sensor had a low bias**
	Current	**20536**	**ARNE**	**Reporting errant spikes in data**
	Current	**20613**	**FREE**	**Sensor reporting large negative values**
TR05				
TR25				
TR60				
TR75				

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN				
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN				
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

“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
V05T	Soil Temperature measured at 5 cm under native sod
V25T	Soil Temperature measured at 25cm under native sod
V45T	Soil Temperature measured at 45cm under native sod