OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT

May 2012

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- Mesonet technicians performed scheduled rotations of 11 Aspirator Fans, 6 Batteries (BATV), 5 Data Loggers (LOGG), 13 Fasttherms (TAIR), 8 Pyranometers (SRAD), 5 Temperature and Relative Humidity Sensors (RELH), 3 Wind Monitors (WDIR) and 1 Windsentry (WS2M).

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH	**Resolved**	**VINI**	**23278**	**Sensor had a low bias during high humidity**
WSPD	**Resolved**	**ELRE**	**23299**	**Reports values greater than 0 during calm winds**
	Resolved	**MEDI**	**23320**	**Sensor damaged**
WDIR				
PRES				
SRAD	**Current**	**STIG**	**23433**	**Sensor has a low bias**
RAIN				
TA9M	**Resolved**	**BURN**	**23340**	**Sensor reports errant spikes in data**
	Resolved	**FTCB**	**23275**	**Reporting negative values due to sensor damage**
	Current	**SLAP**	**23331**	**Sensor reports large negative values**
	Current	**BURN**	**23360**	**Sensor continues to report errant spikes in data**
WS2M	**Resolved**	**BLAC**	**23332**	**Sensor had a starting threshold problem**
	Current	**PORT**	**23434**	**Sensor has a starting threshold problem**

TS10	**Resolved**	**SLAP**	**23289**	**Sensor reports errant spikes in data**
	Current	**BUTL**	**23342**	**Sensor has a low bias**
	Current	**OILT**	**23432**	**Sensor reports errant spikes in data**
TB10	**Resolved**	**ACME**	**23306**	**Sensor reports negative values**
	Resolved	**CHAN**	**23282**	**Sensor had a low bias**
	Resolved	**SLAP**	**23288**	**Sensor reports errant spikes in data**
TS05	**Resolved**	**OKCW**	**23293**	**Sensor was cross wired with TS30**
TB05	**Resolved**	**ACME**	**23339**	**Sensor damaged**
	Resolved	**FREE**	**23281**	**Bare plot temperature had muted diurnal cycle**
	Current	**MEDF**	**23343**	**Bare plot temperature has muted diurnal cycle**
	Current	**DURA**	**23425**	**Bare plot temperature has large diurnal cycle**
	Current	**BOIS**	**23436**	**Bare plot temperature has muted diurnal cycle**
TS30	**Resolved**	**PAWN**	**23256**	**Sensor had a low bias**
TR05	**Current**	**BREC**	**23333**	**Sensor reports errant spikes in data**
	Current	**TAHL**	**23334**	**Sensor reporting errant spikes in data**
TR25				
TR60				

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Resolved	A282	23412	Rain gauge clogged
VW05	Resolved	A249	23319	Errant spikes in soil moisture data
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Resolved	F112	23298	Rain gauge missed rain event
VW05	Resolved	F106	23271	Data stuck at 0 after errant spike in data
VW25	Current	F101	23435	Sensor reports errant spikes in data
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
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