

OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

October 2010

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- Mesonet technicians performed scheduled rotations of 34 Aspirator Fans, 7 Barometers (PRES), 15 temperature and relative humidity sensors (RELH), 2 pyranometer (SRAD), 21 Fasttherms (TA9M), 6 Wind Monitors (WSPD), 1 Wind Vane (WDIR), 1 Soil Temperature Sensor, 14 Dataloggers (LOGG) and 18 Windsentries (WS2M).
- Aspirator Fan at Stuart (STUA) site caused Air Temperature at 1.5m (TAIR) to have a high bias from the 22 September – 7 October 2010, appropriate data flagged as erroneous.
- Aspirator Fan at Talihina (TALI) site caused Air Temperature at 1.5m (TAIR) to have a high bias from the 26 September – 7 October 2010, appropriate data flagged as erroneous.
- ARS Watershed Site A153 remains down due to stolen solar panel.
- ARS Watershed Sites A182, A149 and A144 were decommissioned during October 2010.
- Fall Pass began on 1 October 2010.
- Results from Summer Pass 2010 are now available online at:
 - http://www.mesonet.org/index.php/site_passes

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
WSPD	Resolved	20112	WOOD	Sensor had a starting threshold problem
WDIR				
PRES				
SRAD	Resolved	20251	EUFA	Tall vegetation casted shadows on pyranometer
RAIN	Resolved	20294	FITT	Missing rain event due to spider webs in buckets
TA9M	Resolved	20114	COPA	Reported errant spikes in data

WS2M	Resolved	20106	HUGO	Sensor had a starting threshold problem
	Resolved	20118	BOWL	Sensor had a starting threshold problem
	Resolved	20179	EUFA	Tall vegetation caused starting threshold problem
	Resolved	20231	CHIC	Sensor had a starting threshold problem
	Resolved	20265	APAC	Sensor had a starting threshold problem
	Resolved	20310	SALL	Sensor had a starting threshold problem
TS10	Resolved	20130	MAYR	Sensor had a bias
	Resolved	20132	MARE	Sensor had a bias
	Resolved	20186	ARNE	Sensor had a bias
TB10	Resolved	20096	MTHE	Sensor had rodent damage
	Resolved	20110	ARD2	Sensor had a high bias after rainfall
	Resolved	20119	EUFA	Bare plot diurnal cycle muted due to vegetation
	Resolved	20128	ELRE	Sensor reporting errant spikes in data
	Resolved	20129	ARNE	Sensor had a 1.5 deg C low bias
	Resolved	20133	CARL	Sensor had a 1.1 deg C bias
	Resolved	20184	FTCB	Bare plot's diurnal cycle muted due to vegetation
TS05	Resolved	20233	MAYR	Sensor reporting errant spikes in data
	Resolved	20343	ARNE	Sensor had a 1.45 deg C low bias
	Current	19976	CHEY	Sensor has a low bias compared to other levels
	Current	20306	HOLL	Sensor has a high bias after rainfall
	Current	20366	MIAM	Sensor has a low bias
	Current	20367	OKMU	Sensor has a low bias
TB05	Resolved	20250	CARL	Sensor had a 2.8 deg C low bias
	Resolved	20319	ARNE	Sensor had a 5.3 deg C low bias
TS30	Resolved	20024	HOLL	Sensor had a low bias
	Resolved	20120	GRA2	Sensor had a low bias
	Current	20348	EUFA	Sensor has a low bias

TR05	
TR25	
TR60	
TR75	

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Current	19140	A162	Rain gauge missed rain event
VW05	Current	20078	A182	Voltages reporting large negative values
VW25	Current	20347	A133	Reporting errant spikes in soil moisture
VW45	Current	20089	A144	Reporting errant spikes in soil moisture
	Current	20134	A159	Reporting errant fluctuations in soil moisture
V05T				
V25T				
V45T				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN				
VW05	Current	20116	F112	Reporting errant spikes in soil moisture and soil temperature
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