

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
February 2007

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- Despite having sub-freezing temperatures during the first half of February, Mesonet Technicians resolved over 130 trouble tickets including scheduled rotations of 18 barometers, 21 temperature and relative humidity sensors, and 4 wind sentries.
- Pressure data were flagged for ALTU, COOK, EUFA, NEWK, NRMN, and SHAW from 13 – 16 February 2007 due to ice.
- Soil temperature data at HOBA were flagged as warning from 24 January – 8 February 2007 due to a multiplexer problem.
- Soil moisture data for SPEN are flagged as warning since 7 March 2007 due to a multiplexer problem.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	14682	MINC	Replaced faulty sensor.
	Resolved	14773	VINI	Replaced faulty sensor.
RELH	Resolved	14618	FITT	Repaired sensor that was reporting errant data.
	Resolved	14619	EUFA	Fixed wiring problem.
	Resolved	14620	TISH	Replaced faulty sensor.
	Resolved	14711	VINI	Fixed wiring problem.
	Resolved	14772	VINI	Replaced faulty sensor.
WSPD	Current	14793	BIXB	Sensor has a starting threshold problem.
	Resolved	14617	KENT	Replaced sensor with a low bias.
WDIR	Current	14659	INOL	Sensor has a directional bias.
PRES	Resolved	14688	PAWN	Fixed wiring problem.

SRAD	N/A			
RAIN	Current	14795	GRA2	Rain gauge under reported during rain event.
	Resolved	14650	TAHL	Sensor missed rain event due to a frozen rain gauge.
	Resolved	14681	WEBB	Replaced faulty rain gauge.
TA9M	N/A			
WS2M	Resolved	14613	MTHE	Replaced faulty sensor.
	Resolved	14614	CLOU	Replaced faulty sensor.
	Resolved	14615	STUA	Replaced damaged sensor.
TS10	Current	14794	MADI	Sensor has a high bias.
	Resolved	14649	HINT	Replaced sensor that had a low bias.
TB10	Current	14791	MAYR	Sensor too shallow.
	Resolved	14647	VINI	Replaced sensor that had a low bias.
	Resolved	14699	OKMU	Reburied sensor that was too shallow.
	Resolved	14700	COPA	Reburied sensor that heaved out of ground.
	Resolved	14703	JAYX	Reburied sensor that was too shallow.
	Resolved	14706	PRYO	Reburied sensor that was too shallow.
	Resolved	14728	NEWK	Reburied sensor that was too shallow.
TS05	Current	14791	MAYR	Sensor is too shallow.
TB05	Current	14695	WYNO	Sensor heaved out of ground.
	Resolved	14596	MEDF	Replaced sensor that had a low bias.
	Resolved	14648	LAHO	Replaced sensor that had a low bias.
	Resolved	14683	COPA	Reburied sensor that heaved out of ground.
	Resolved	14684	OKMU	Reburied sensor that heaved out of ground.
	Resolved	14686	JAYX	Reburied sensor that heaved out of ground.
	Resolved	14687	PRYO	Reburied sensor that heaved out of ground.
	Resolved	14712	NEWK	Reburied sensor that was too shallow.

TS30	N/A			
TR05	N/A			
TR25	Current	14741	ALV2	Sensor stopped working.
TR60	Current	14790	WALT	Sensor stopped working.
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	Resolved	14644	A121	Replaced faulty sensor.
TS10	Resolved	14645	A121	Replaced faulty sensor.
	Resolved	14646	A136	Replaced sensor damaged by gopher.
	Resolved	14694	A144	Replaced faulty sensor.
TS15	Resolved	14611	A136	Replaced sensor damaged by gopher.
TS30	N/A			
VW05	Resolved	14612	A134	Replaced faulty sensor.

VW25	Resolved	14709	A149	Fixed wiring problem.
VW45	N/A			

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	Current	14739	F111	Sensor reports errant data.
RELH	N/A			
SRAD	N/A			
RAIN	Current	14796	F111	Sensor under reported.
TS05	N/A			
TS10	N/A			
TS15	N/A			
TS30	N/A			
VW05	N/A			
VW25	N/A			
VW45	Current	14740	F113	Sensor reports errant data.
	Resolved	14726	F113	Fixed wiring problem.

“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