

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
June 2007

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

- The damp month of June reduced the number of days the Mesonet Technicians could be in the field. While dodging raindrops, Technicians rotated 10 temperature and relative humidity sensors, 5 wind sentries, 2 barometers, and 2 fasttherms.
- The Clinton (CLINrptr), Kiowa (KIOWrptr), and Talihina (TALlrptr) repeaters were upgraded.
- Datalogger and multiplexer issues affected A121. Soil moisture data were flagged from 11 to 19 June 2007.
- Spring Pass was completed in June.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	15192	ERIC	Replaced sensor that had developed a bias
RELH	Resolved	15166	STIG	Replaced sensor that was reporting erratic data
WSPD	N/A			
WDIR	N/A			
PRES	Resolved	15229	BURB	Replaced sensor that was not responding to changes in pressure
SRAD	Resolved	15167	GOOD	Replaced sensor that was not responding to sunlight
RAIN	Current	15283	FORA	Sensor failed during a rain event
	Resolved	15134	HINT	Cleaned sensor that may have been plugged with dirt
	Resolved	15135	MRSB	Repaired sensor that had missed a rain event
TA9M	Resolved	15103	STIL	Replaced sensor that had developed a low bias
WS2M	N/A			

TS10	Current	15264	KING	Sensor has developed a low bias
	Resolved	15179	NEWK	Replaced sensor that had developed a low bias
	Resolved	15228	BURB	Replaced sensor that had failed
TB10	Current	15193	BURB	Sensor has developed a low bias
	Resolved	15127	HOBA	Replaced sensor that had developed a low bias
TS05	Current	15285	TIPT	Sensor has developed a low bias
	Current	15286	OKMU	Sensor has developed a high bias
TB05	Current	15178	COOK	Sensor has developed a low bias
	Resolved	15172	PUTN	Replaced sensor that had developed a high bias
	Resolved	15177	HOBA	Replaced sensor that had developed a low bias
TS30	N/A			
TR05	Resolved	14841	ANTL	Replaced sensor that had failed
TR25	Current	15188	INOL	Sensor has failed
	Current	15282	LANE	Senor has failed
TR60	N/A			
TR75	Current	15279	NRMN	Sensor not responding to changes in moisture
	Resolved	15067	PUTN	Removed sensor that had failed

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	15184	A159	Replaced sensor that had developed a high bias
TS10	Resolved	15190	A146	Replaced sensor that was damaged by lightning
TS15	N/A			
TS30	Resolved	15185	A156	Replaced sensor that had developed a high bias
	Resolved	15186	A121	Replaced sensor that had developed a low bias
	Resolved	15189	A159	Replaced sensor that had developed a high bias
VW05	N/A			
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	N/A			
TS05	N/A			
TS10	N/A			

TS15	N/A
TS30	N/A
VW05	N/A
VW25	N/A
VW45	N/A

“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