

# OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

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Both the Mesonet and the Micronet experienced a rather quiet pattern for July. Besides a gopher here, a possible lightning strike there, and a few batteries stolen from sites, it was an uneventful month.

In the great rain giveaway during the month, BLAC was the overall winner coming in with over 12 inches of rain, while NEWK was second at over 10 inches. The big losers were those sites in South Central OK, where very little rainfall was measured.

Now, on to the rap sheet ...

<b>Mesonet QA Report for Standard Variables</b>	
<b>TAIR</b>	Current: Resolved:
<b>RELH</b>	<b>Current: #1292 HUGO Intercomparison revealed RH out of spec ~3% W.R.T. test probe</b> <b>Resolved: #1383 MINC Replaced Sensor</b> <b>Resolved: #1382 SLAP Field test showed sensor was ok</b> <b>Resolved: #1375 NEWK RH good when at site - replaced</b> <b>Resolved: #1409 MARS MESOCOMP showed probe outside of error limits - replaced sensor</b>
<b>WDIR</b>	Current: Resolved:
<b>WSPD</b>	Current: Resolved:
<b>PRES</b>	<b>Current: #1381 RING Data has been experiencing an intermittent data spike</b> <b>Current: #1418 BURN The Pressure values are stuck for long periods of time</b> Resolved:
<b>SRAD</b>	Current: Resolved:
<b>RAIN</b>	<b>Current: #1358 TALI Drip test yielded 57 tips, 50 expected</b> <b>Current: #1333 WALT 2 drip tests yielded 43 each - 50 typical</b> <b>Resolved: #1376 STIG Returned 52 tips, gauge was clean w/no vegetation around it.</b> <b>Resolved: #1379 WIST Returned gauge to the lab for inspection</b> <b>Resolved: #1386 NINN MAINT/RAIN shunt jumper was connected causing all RAIN to be shunted to MES01A</b> <b>Resolved: #1391 CHEY Field test showed 54 tips - only slight overestimation at a rate of 4"/hr</b> <b>Resolved: #1322 FTCB Old gauge underestimating by 50% - field test</b> <b>Resolved: #1394 JAYX Drip test showed gauge ok</b> <b>Resolved: #1400 RING Spider web removed</b>

<b>TA9M</b>	Current: Resolved:
<b>WS2M</b>	Current: Resolved:
<b>TS10</b>	Current: <b>Resolved: #1364 NINN TS10 looked OK when at site.</b>
<b>TB10</b>	<b>Current: #1414 ADAX Sensor has begun to report wild negative values</b> <b>Resolved: #1388 GRAN Replaced damaged sensor</b> <b>Resolved: #1313 HOLL Probe reporting a ~6 degree warm bias – field test</b>
<b>TS05</b>	Current: <b>Resolved: #1190 MADI Sensor Replaced.</b> <b>Resolved: #1089 MADI Covered by actions of #1190</b> <b>Resolved: #967 NORM Sensor Replaced</b>
<b>TB05</b>	Current: <b>Resolved: #1373 GRAN Sensor stopped working</b>
<b>TS30</b>	Current: Resolved:

	<b>ARS QA Report</b>
<b>TAIR</b>	Current: Resolved:
<b>RELH</b>	Current: <b>Resolved: #1352 A148 No problem found when at site - precautionary replacement</b>
<b>SRAD</b>	Current: <b>Resolved: #1389 A181 Broke down heads of Johnson grass so that no shading occurred</b> <b>Resolved: #1390 A150 Replaced sensor - no signs of lightning or other physical damage</b>
<b>RAIN</b>	Current: <b>Resolved: #1387 A135 Trimmed RTV from reed switch which was blocking the magnet</b>
<b>TS05</b>	Current: <b>Resolved: #1350 A147 Sensor reading 20C too high when checked</b>
<b>TS10</b>	Current: <b>Resolved: #1351 A153 Could not duplicate problem in the field</b>
<b>TS15</b>	<b>Current: #1416 A144 QA suggests a ~5 degree C warm bias</b>

	Resolved:
<b>TS30</b>	Current: Resolved: #1380 A165 Side by side comparison revealed sensor 20C too high WRT other three probes

“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