

# OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

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Greetings all...

October heralded the return of much cooler temps to the state with rapidly changing weather conditions. Fortunately, the Mesonet instruments handled the colder temps and occasional precip quite well. Relatively few new problems were reported.

This month's wildlife includes: gophers at WOOD and ARS, worms in the pres tube at HUGO, and spiders at ARS. The highlight of the month: an armadillo at REDR playing with our soil probes.

<b>Mesonet QA Report for Standard Variables</b>	
<b>TAIR</b>	Current: Resolved:
<b>RELH</b>	Current: Resolved: #1292 HUGO Intercomparison revealed RH out of spec ~3% W.R.T. test probe Resolved: #1472 IDAB There are unrealistic small-amplitude variations in the data Resolved: #1507 WATO RH failed, 89% to 0% in 5 minutes Resolved: #1511 WEBB RH has been reading greater than 104% at night Resolved: #1547 WIST RH tested 5% too high
<b>WDIR</b>	Current: #1560 FTCB WDIR seems stuck between E/SE; occ'y okay Resolved: #1496 BUFF Lightning Damage
<b>WSPD</b>	Current: #1563 CLAR Reading less than the 2m wind speeds Resolved: #1540 BUFF Possible lightning strike
<b>PRES</b>	Current: Resolved: #1514 HUGO Pres appears too high, worms in the tube Resolved: #1526 WYNO Pres stuck for 18hrs Resolved: #1528 WOOD Automatic routines detected a problem
<b>SRAD</b>	Current: #1559 ARNE Reading -1 at night (RH problem actually) Resolved:
<b>RAIN</b>	Current: #1562 BURB Drip test failed-55/54, should be 50.4 Resolved: #1469 TAHL Underreporting, drip test ~44 (50 expected) Resolved: #1523 MADI Drip test suspect, magnet too high Resolved: #1542 ERIC Gauge clogged w/grass and weed seed
<b>TA9M</b>	Current: Resolved:
<b>WS2M</b>	Current: Resolved: #1534 BIXB Switched to check in lab

<b>TS10</b>	Current: <b>Resolved: #1510 ERIC Sensor failure</b> <b>Resolved: #1554 REDR Armadillo dug up probe; reburied nearby</b>
<b>TB10</b>	Current: Resolved:
<b>TS05</b>	Current: Resolved:
<b>TB05</b>	<b>Current: #1558 SALL Sensor failed; occ'y works</b> <b>Current: #1564 BUFF Appears about 5C too cool, Sept lightning strike?</b> <b>Resolved: #1497 GOOD Sensor failed</b>
<b>TS30</b>	Current: <b>Resolved: #1525 WOOD Sensor failed, probable gopher damage</b>

<b>ARS QA Report</b>	
<b>TAIR</b>	Current: Resolved:
<b>RELH</b>	Current: <b>Resolved: #1538 A166 Replacement of a bad RH probe</b> <b>Resolved: #1539 A162 Sensor failure (died), replaced</b>
<b>SRAD</b>	Current: <b>Resolved: #1529 A131 Spider web around sensor</b>
<b>RAIN</b>	Current: Resolved:
<b>TS05</b>	Current: Resolved:
<b>TS10</b>	Current: Resolved:
<b>TS15</b>	Current: <b>Resolved: #1530 A144 Reading too high</b>
<b>TS30</b>	Current: <b>Resolved: #1537 A165 Gopher chewed cable in half</b>

“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.

<b>Variable</b>	<b>Description</b>
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