

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

March 1997

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It was kind of a miserable month for parts of the Mesonet. In eastern Oklahoma, both SALL and PRES were vandalized with SALL receiving extensive damage, and PRES sustaining some moderate damage. What kind of idiots would be so stupid as to rip off or destroy a bunch of "weather instruments"? I would bet that they don't realize that there is not a tremendous black market for these types of things.

Then there are the usual Mesonet occurrences. Gophers continue to play havoc with anything buried in the ground. Plus, parts of western Oklahoma received either little or no precipitation for the entire month of March. At some sites this may be suspect since there may be clogged gauges.

Once again we enter the time of year where convective storms produce lightning. Although there has not been appreciable damage due to lightning thus far, it will only be a matter of time before the first site takes a major jolt.

And now, the information you've all been waiting for ...

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved: #1217 SALL Vandalism replacement
RELH	Current: #1245 BBOW Has continuously scored high on the daily QA report Current: #1196 IDAB Sensor not reporting Resolved: #1195 PRES Sensor removed due to extreme vandalism Resolved: #1194 CHEY Sensor replaced due to bad readings Resolved: #1139 TIPT Replaced but no field test done
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	Current: Resolved: #1177 WYNO Tube clean - suspect there was ice in tube Resolved: #1223 Vandalism Replacement
SRAD	Current: Resolved: #1239 BIXB Appears there was something on pyronometer Resolved: #1222 SALL Vandalism replacement
RAIN	Current: #1116 BOWL Drip test yield 41 tips (50 typical) Current: #1197 PUTN Possible mechanical inhibition Current: #1198 MEDF Possible mechanical inhibition Current: #1248 JAYX Possible gauge clog

	Resolved: #1216 PRES Old gauge has half full bucket - vandalism Resolved: #1224 SALL Vandalism replacement
TA9M	Current: #1126 HUGO QA suggests sensor may read ~2 deg cool Resolved:
WS2M	Current: #1227 MANG Sensor went to zero Resolved: #1129 PRES Vandalism, sensor removed - not replaced
TS10	Current: #1193 STUA QA suggests a ~3 degree warm bias Resolved: #1168 MARE Gopher damage
TB10	Current: #1076 WALT Began drifting, then failed spatial test Current: #1200 TALI Sensor reading +10 deg warmer than neighboring sites Resolved: #1189 WYNO Slight chewing on shrink rap Resolved: #1219 SALL Vandalism replacement
TS05	Current: #1089 MADI QA suggests sensor reading ~5-6 degrees warm Current: #1190 MADI QA suggests sensor reading ~3 degrees warm Current: #1191 CALV QA suggests sensor reading ~3 degrees warm Current: #1192 STUA QA suggests sensor reading ~3 degrees warm Current: #1206 LANE Sensor reading ~10+ degrees warmer than neighboring sites Resolved: #1149 MARE Gopher damage Resolved: #1218 SALL Vandalism replacement
TB05	Current: #1127 OKEM QA indicates sensor may read ~3 deg cool Current: #1169 KING QA suggests a ~4 deg warm bias Resolved: #1220 SALL Vandalism Replacement
TS30	Current: Resolved: #1243 MARE Gopher damage - This sensor was not bad

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved: #1213 A122 Confirmed bad switch on old RH
SRAD	Current: #1132 A182 QA suggests sensor ~30% high Resolved: #1205 A122 Problem with T&RH, not pyronometer
RAIN	Current: Resolved:
TS05	Current: #1214 Sporadic negative readings Resolved:

TS10	Current: Resolved:
TS15	Current: #1136 A182 QA suggests a ~6 degree warm bias Resolved:
TS30	Current: Resolved:

“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