

**OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT**  
September 1998

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After a long, dry summer, September brought little relief to the western part of the state. A large portion of southwest Oklahoma and all of the far western counties received less than .50 inches of rainfall as average afternoon temperatures remained in the upper 80s to lower 90.

Most of central and eastern Oklahoma saw welcomed rains during September. Quite a number of stations received over 5 inches for the month. Broken Bow won the award for wettest site-- receiving 10.08 inches.

And now, on to the report...

<b>Mesonet QA Report for Standard Variables</b>	
<b>TAIR</b>	Current: Resolved:
<b>RELH</b>	Current: #2082 RETR Sensor reporting as high as 107% during periods of high humidity Current: #2086 PAWN Sensor reporting low bias of ~40% during the afternoons Resolved: #2039 CAMA Sensor damaged by lightning replaced Resolved: #2059 BYAR Replaced sensor found to be biased 30% low
<b>WDIR</b>	Current: Resolved:
<b>WSPD</b>	Current: Resolved:
<b>PRES</b>	Current: #2048 FTCB Sensor sticking and producing barometer errors Current: #2016 KENT Sensor sticking and reporting barometer errors since installation Resolved: #2049 Sulp Replaced sensor reporting data spikes
<b>SRAD</b>	Current: #1839 HOOK Reporting -1 for extended periods at night Resolved:
<b>RAIN</b>	Current: #1955 TISH Sensor under-reporting rainfall Current: #2079 HOLL Sensor stuck at 0 Current: #2085 PERK Sensor under-reporting rain events Resolved: #2030 WOOD Bucket off bearings; replaced
<b>TA9M</b>	Current: #1989 HUGO Monthly QA suggests 2 C cool bias Resolved:
<b>WS2M</b>	Current: Resolved: #2035 STIL Replaced bearings when high starting threshold found

<b>TS10</b>	Current: #2021 SEIL Sensor reporting erroneous dips Resolved: #2037 CAMA Replaced sensor damaged by lightning Resolved: #2061 SALL Replaced sensor with severe gopher damage
<b>TB10</b>	Current: #1779 WILB Monthly QA suggests 4 C cool bias Current: #2003 WOOD Sensor reporting 8 C cooler than neighbors Current: #2020 SEIL Sensor reporting erroneous dips Current: #2060 BRIS Sensor reporting erratically and ~10 C high Current: #2066 PERK Sensor reporting 10 C warm bias Resolved: #2052 BYAR Replaced sensor reporting numerous spikes
<b>TS05</b>	Current: Resolved: #1847 SHAW Sensor re-wired Resolved: #2081 SALL Initial installation
<b>TB05</b>	Current: #1808 WOOD Monthly QA suggests possible 4 C warm bias Current: #1899 IDAB Sensor reporting over 50 C Current: #1988 EUFA Sensor reporting cooler than TB10 at all times of day Current: #2015 ELRE Sensor reporting 8 C warmer than neighbors Current: #2036 BOIS Sensor has diurnal swing from 11 C - 56 C Resolved: #1878 PAUL Replaced sensor reporting below 0.0
<b>TS30</b>	Current: Resolved: #1956 SHAW Sensor re-wired Resolved: #2080 SALL Initial installation

<b>ARS QA Report</b>	
<b>TAIR</b>	Current: Resolved:
<b>RELH</b>	Current: Resolved: #2047 A152 Meso-comparison required replacement Resolved: #2055 A151 Replaced sensor with cracked base
<b>SRAD</b>	Current: Resolved:
<b>RAIN</b>	Current: Resolved:
<b>TS05</b>	Current: Resolved: #2045 A153 Gopher-damaged sensor replaced Resolved: #1924 A157 Sensor installed after site move
<b>TS10</b>	Current: Resolved: #1927 A157 Sensor installed after site move
<b>TS15</b>	Current: Resolved: #1926 A157 Sensor installed after site move

	<b>Resolved: #2029 A146 Replaced sensor reporting sporadically below -100 C</b>
<b>TS30</b>	Current: <b>Resolved: #2034 A153 Gopher-damaged sensor replaced</b> <b>Resolved: #1925 A157 Sensor installed after site move</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