

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
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Mesonet Technicians completed Summer Pass 2002 in late September. All 116 sites were visited and maintained.

The Washington site was upgraded to a Supersite on 20 September.

It was feast or famine across the state for rainfall in September. Eufaula and Sallisaw in east central Oklahoma received less than 0.20 inches for the month. In contrast, much of north central, southeast, and the extreme western Panhandle received over 4 inches. The Kingfisher site was the wettest with 7.40 inches.

Mesonet QA Report for Standard Variables	
TAIR	Current: #7061 BEEEX +3 degree C bias in afternoon Resolved:
RELH	Current: Resolved:
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	Current: # 7138 WALT Erratic pressure changes of 4 to 8mb Resolved: # 7036 MADI Rewired barometer (stuck at 991mb) Resolved: # 7043 NRMN Replaced barometer (stuck at 1216mb) Resolved: # 7045 SHAW Replaced barometer (sporadic changes of 10 to 30mb in pres) Resolved: # 7046 BUFF Reset and rewired to make compatible with new logger (stuck at 951mb) Resolved: # 7048 NOWA Repaired broken wire (stuck at 992.17mb) Resolved: # 7053 VANO Rewired barometer (stuck at 977.25mb) Resolved: # 7054 BOWL Moved barometer power cable to SW 12V port (stuck at 979.73mb) Resolved: # 7083 WASH Loose 12V wire refastened on expansion board (stuck at 970.32mb)
SRAD	Current: # 7194 CLRM Pyranometer has 10% low bias Resolved:
RAIN	Current: # 7139 FAIR Gauge reporting phantom tips Resolved: # 7041 GOOD Replaced switch (under-tipping) Resolved: # 7050 CALV Removed spider webs from bucket (not tipping)

TA9M	Current: Resolved:
WS2M	Current: Resolved:
TS10	Current: # 7137 WOOD 5 to 8 degrees C lower than TS05 and nearby sites in afternoon Resolved: # 7165 COPA Sensor replaced (+3 degree C bias)
TB10	Current: Resolved: # 7039 IDAB Sensor replaced (5 degrees higher than TB05)
TS05	Current: Resolved:
TB05	Current: Resolved: # 7085 IDAB Replaced sensor Resolved: # 7087 MEDI Re-surfaced bare plot (sensor 2cm too deep)
TS30	Current: Resolved: # 7064 WEST Replaced sensor (-3 deg C bias)

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved:
WDIR	Current: Resolved:
SRAD	Current: Resolved: # 7042 A121 Replaced pyranometer (reported -9997 and 1650 W/m² in afternoon)
RAIN	Current: Resolved: # #7037 A154 Tightened loose wire on switch (under-tipping)
TS05	Current: Resolved: # 7051 A156 Replaced (reporting temps above 80 degrees C)
TS10	Current: Resolved: # 7049 A122 Replaced sensor (reporting temps up to 10 deg higher than TS05)

TS15	Current: 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