

OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

December 2016

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- Mesonet technicians completed scheduled rotations of 15 batteries (BATV).
- Battery problems at the Byars Mesonet Site (BYAR), Chandler Mesonet Site (CHAN), Holdenville Mesonet site (HOLD), and Marena Mesonet Site (MARE) caused the battery to drop below 12V at night.

Mesonet QA Report for Standard Variables

| Variable | Status | Site | Ticket | Remarks |
|----------|----------|------|--------|--|
| TAIR | | | | |
| RELH | | | | |
| WSPD | | | | |
| WDIR | | | | |
| PRES | | | | |
| SRAD | | | | |
| RAIN | Resolved | CAMA | 31178 | Primary gauge reported a high bias. |
| | Resolved | PUTN | 31150 | Secondary gauge reports less than primary gauge. |
| | Current | FTCB | 31372 | Primary gauge reports less than secondary gauge. |
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|--------------|----------------|-------------|--------------|---|
| TA9M | | | | |
| | | | | |
| WS2M | | | | |
| | | | | |
| TB10 | | | | |
| | | | | |
| TS05 | | | | |
| | | | | |
| TS10 | | | | |
| | | | | |
| TS25 | | | | |
| | | | | |
| TS60 | | | | |
| | | | | |
| TR05 | Current | NINN | 31138 | Final temperature increased from 15C to 28C. |
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| TRB10 | | | | |
| | | | | |
| TRS10 | Current | CENT | 31376 | Sensor reporting -7999. |
| | | | | |
| TR25 | | | | |
| | | | | |
| TR60 | | | | |

ARS Little Washita Watershed QA Report

| Variable | Status | Site | Ticket | Remarks |
|----------|---------|------|--------|---|
| RAIN | Current | A253 | 31031 | Rain gauge reported zero during rain event. |
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| VW05 | | | | |
| | | | | |
| VW25 | | | | |
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| VW45 | | | | |
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| V05T | | | | |
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| V25T | | | | |
| | | | | |
| V45T | | | | |

ARS Fort Cobb Watershed QA Report

| Variable | Status | Site | Ticket | Remarks |
|----------|----------|------|--------|---|
| RAIN | Resolved | F110 | 31137 | Rain gauge reported zero during rain event. |
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| VW05 | | | | |
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| VW25 | | | | |
| | | | | |
| VW45 | | | | |
| | | | | |
| V05T | | | | |
| | | | | |
| V25T | | | | |
| | | | | |
| V45T | | | | |

“Current” tickets are unresolved tickets as of the last day of the month OR tickets added after Monthly QA analysis.
 “Resolved” tickets are the sensor problems 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 |
| TB10 | Soil temperature measured at 10 cm under bare sod |
| TS05 | Soil temperature measured at 5 cm under native soil |
| TS10 | Soil temperature measured at 10 cm under native sod |
| TS25 | Soil temperature measured at 25 cm under native soil |
| TS60 | Soil temperature measured at 60 cm under native sod |
| TR05 | Soil moisture: Calibrated DeltaT measured at 5 cm under native sod |
| TR25 | Soil moisture: Calibrated DeltaT measured at 25 cm under native sod |
| TR60 | Soil moisture: Calibrated DeltaT measured at 60 cm under native sod |
| VW05 | Soil moisture: Volumetric water content measured at 5 cm under native sod |
| VW25 | Soil moisture: Volumetric water content measured at 25 cm under native sod |
| VW45 | Soil moisture: Volumetric water content measured at 45 cm under native sod |
| V05T | Soil Temperature measured at 5cm under native sod |

| | |
|------|--|
| V25T | Soil Temperature measured at 25cm under native sod |
| V45T | Soil Temperature measured at 45cm under native sod |