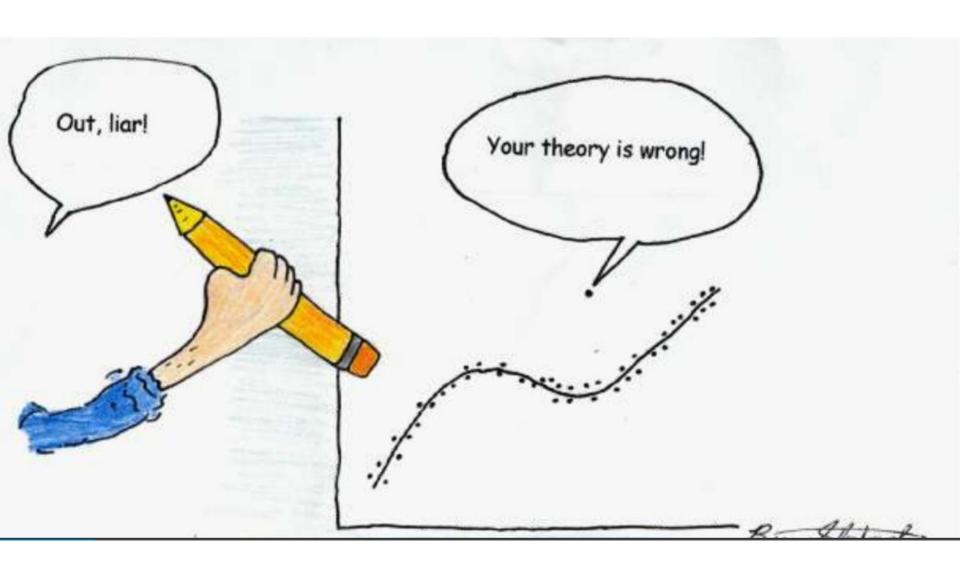
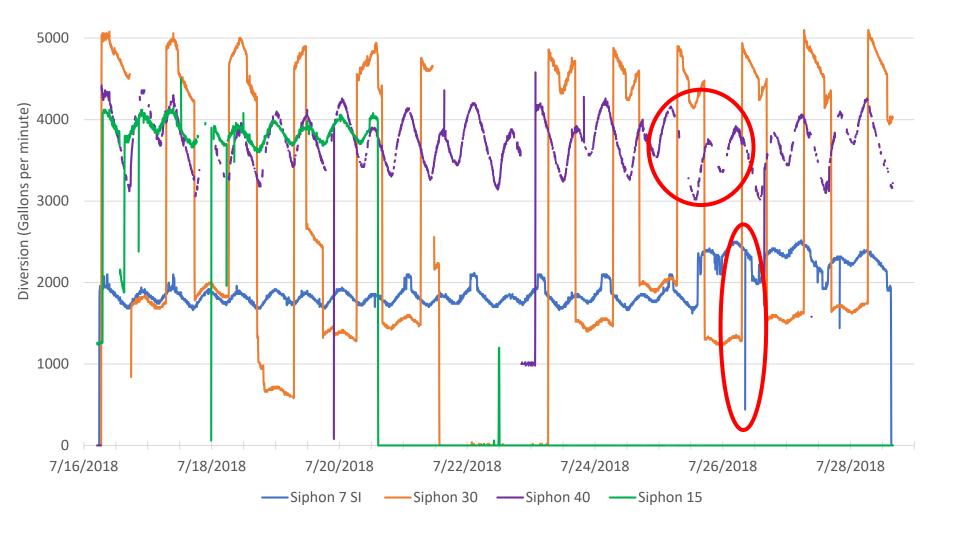
StatenX 2018 Results









Data Management Plan



 Outliers: Flag and comment. Replace with a missing value and then generate hourly averages



Small Gaps: Interpolate between the last known values



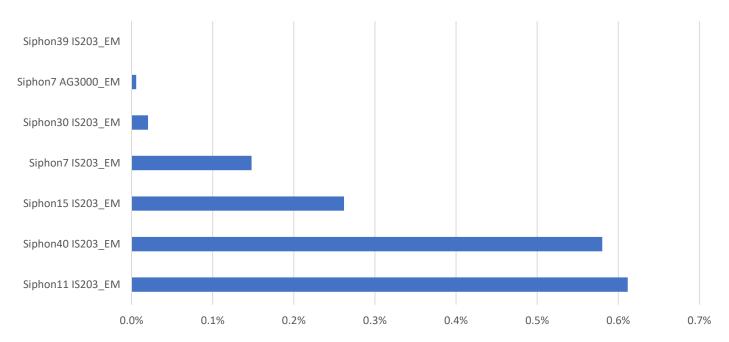
• Large Gaps: Use irrigator records and fill in with daily averages from when the siphon was running.



• Siphons without meters: Use irrigator records and fill in with daily averages from that month for similar siphon type / crop

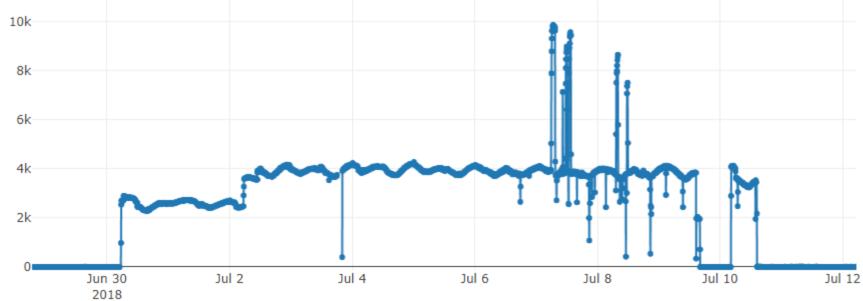
Outliers



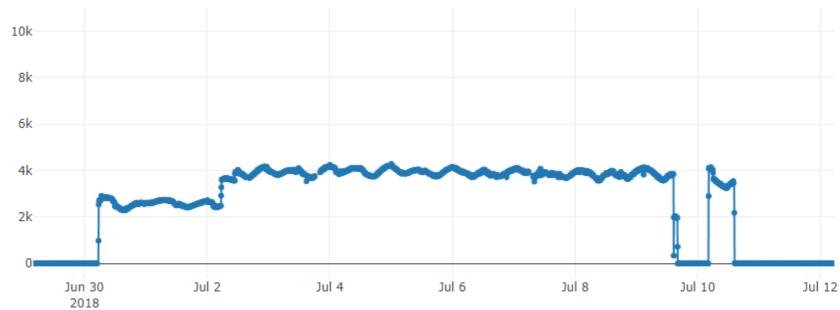


Outliers are not frequent but can have a big impact on totals

Siphon 11 – With Outliers

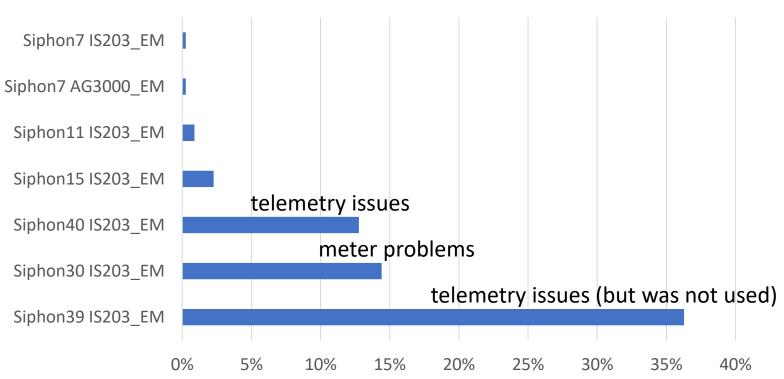


Siphon 11 – Without Outliers



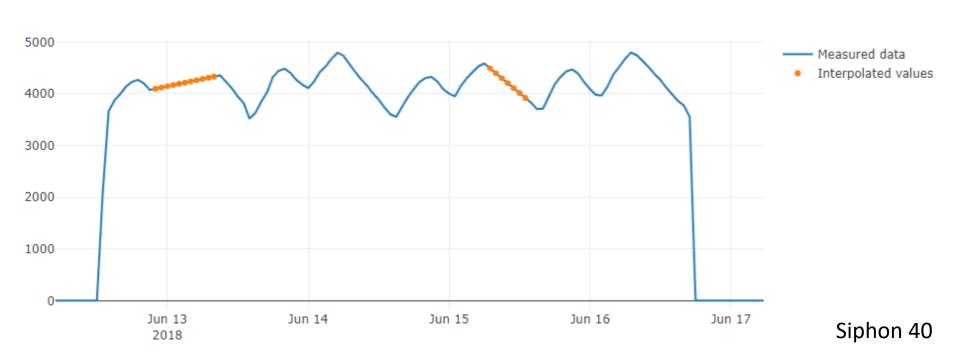
Data Gaps



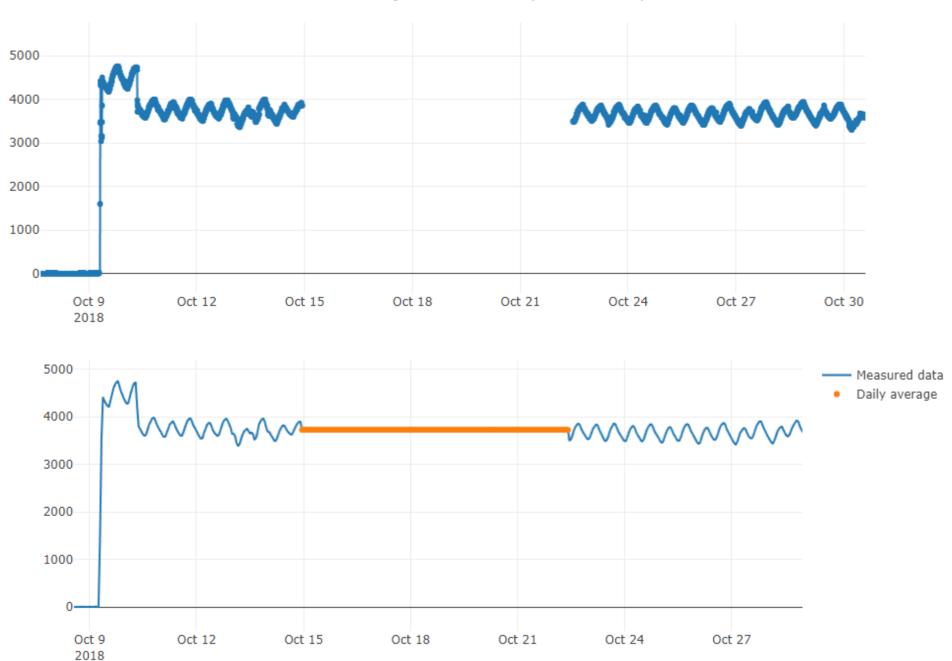


Small Data Gaps <5 days

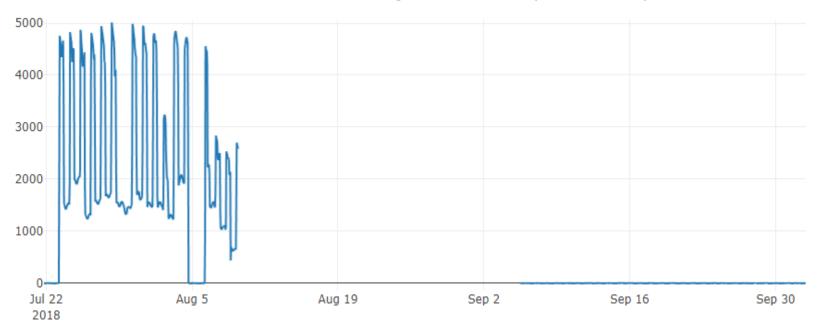


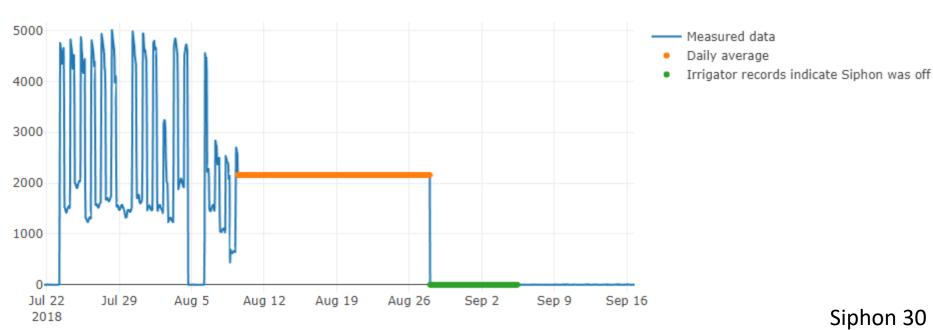


Large Data Gaps >5 days



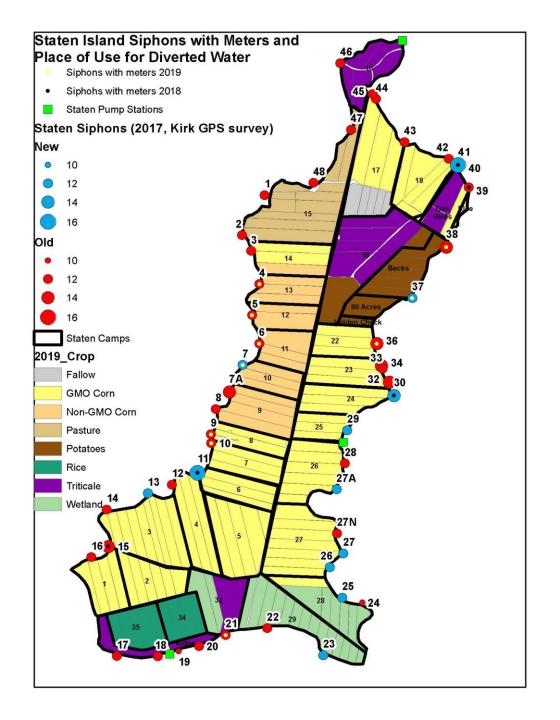
Large Data Gaps >5 days





Next Steps

- Generate monthly summaries by siphon for reporting
- Share raw and edited data
- Compare with irrigator records and daily average estimation methods
- Move meters and install new meters
- Test all siphons at different valve settings
- Test remote sensing options



Recommendations



• State program to install and maintain meters for monthly fee



Data standards and guidelines for outliers and data gaps



Digital portal (API) to automatically report measurements



Enhanced grant program specific to SB88



Long Term Accuracy at StatenX

2017: 2.57%

2018: 1.20%