

Eflow Calculator:
*A tool for evaluating environmental flow standards
and assessing water allocation decisions*

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Issues

Environmental flow standards can be established in terms of many different flow statistics (e.g., 7Q10, mean annual flow, percent of time exceeded during a bioperiod). *How do the results of different types of standards compare to each other?*

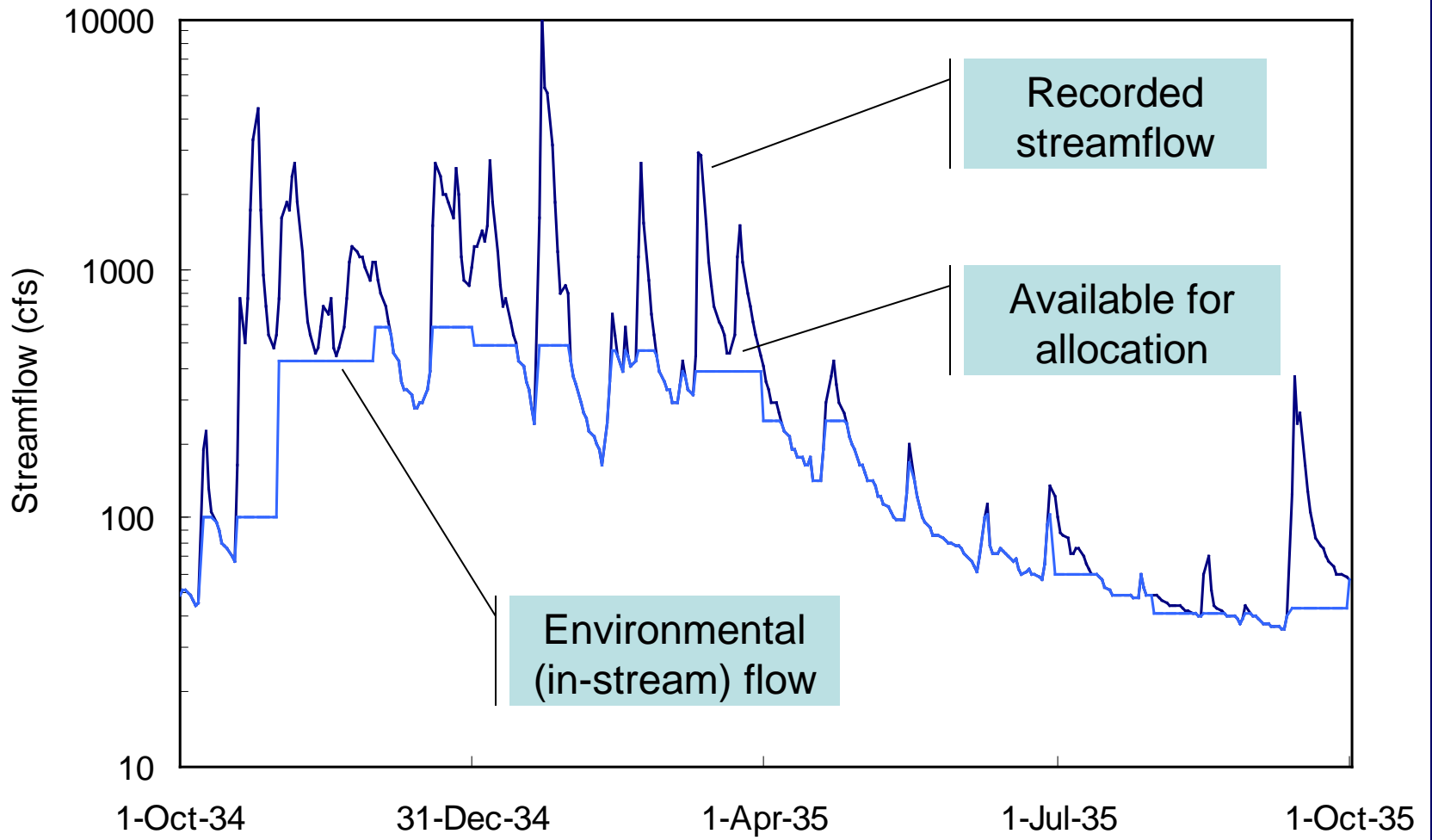
Streamflow may be available (or unavailable) periodically because of environmental flow standards. *How much water is available and how reliably is it available for a given environmental flow standard?*

Goal

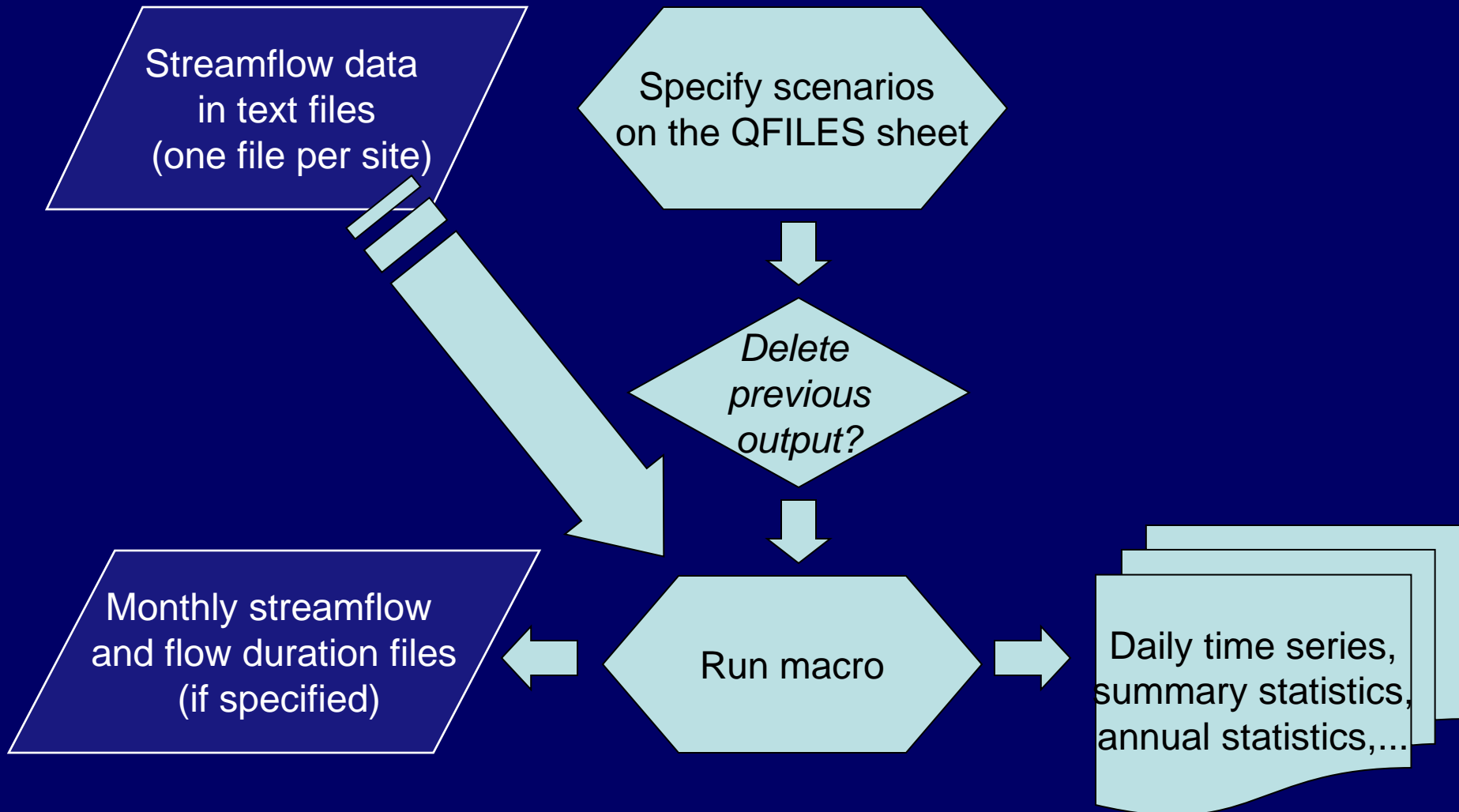
Develop a simple program that will...

- calculate statistics from a daily streamflow time series,
- allow the user to create scenarios with specified environmental flow standards and allocation limits in terms of those statistics; and
- apply the environmental flow standards and allocation limits to the daily streamflow time series to generate a daily streamflow time series and associated statistics for each scenario.

Terminology



Flow Chart for Eflow Calculator



EFLOW DEMO

NEXT STEPS

The Eflow Calculator has not been peer reviewed or published, so it is only available for testing.
Don't use it for any purpose when the accuracy of the results are important to anyone!

Water availability assessment will be added to the version that will be released planned for 2010.

Suggestions for other statistics or features are appreciated!