

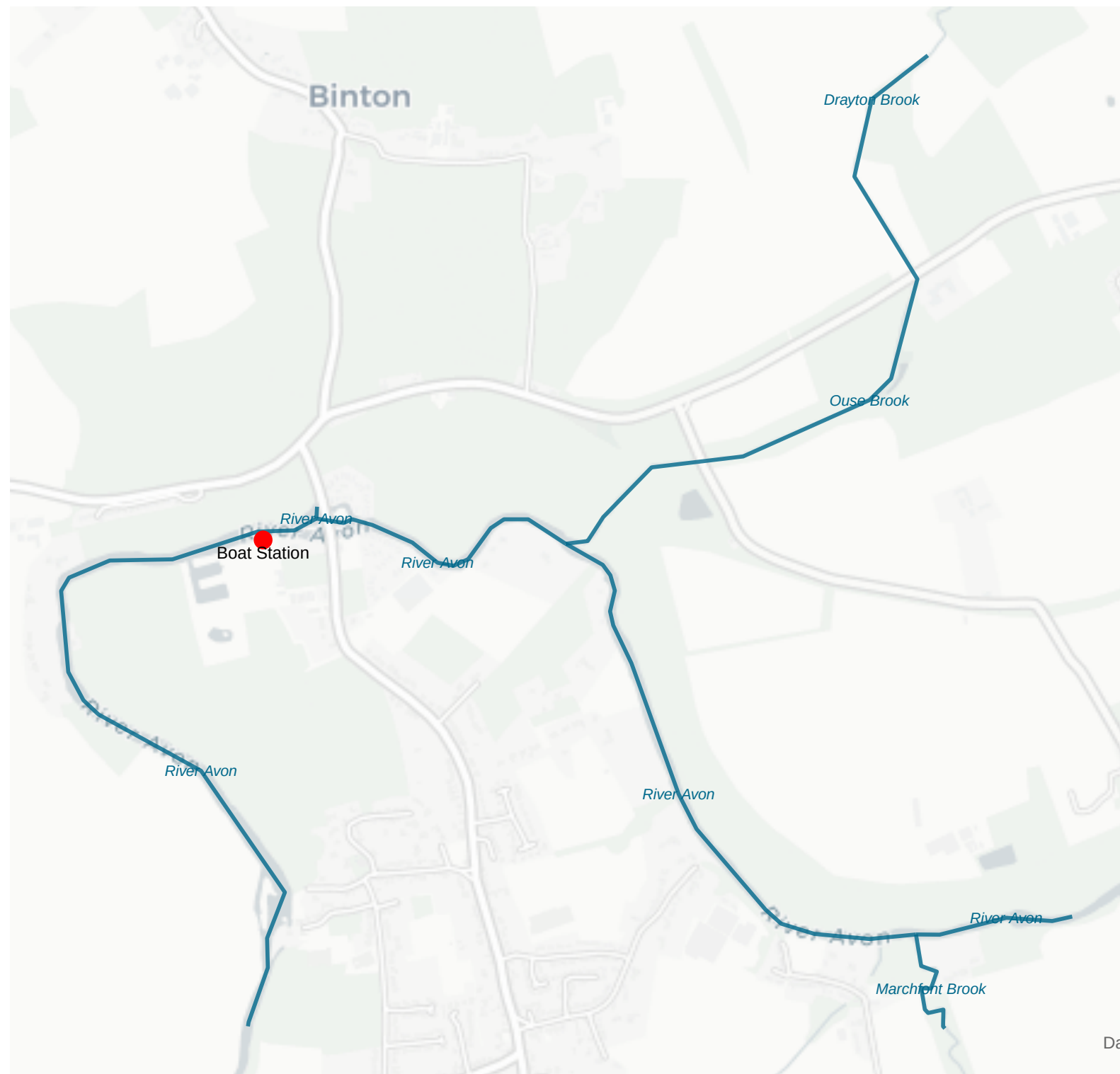
SafeAvon Nutrient Testing Report: Welford-on-Avon

SafeAvon Sites By Waterway

Avon River

. Welford-on-Avon – Boat Station

SafeAvon Locations in Welford-on-Avon

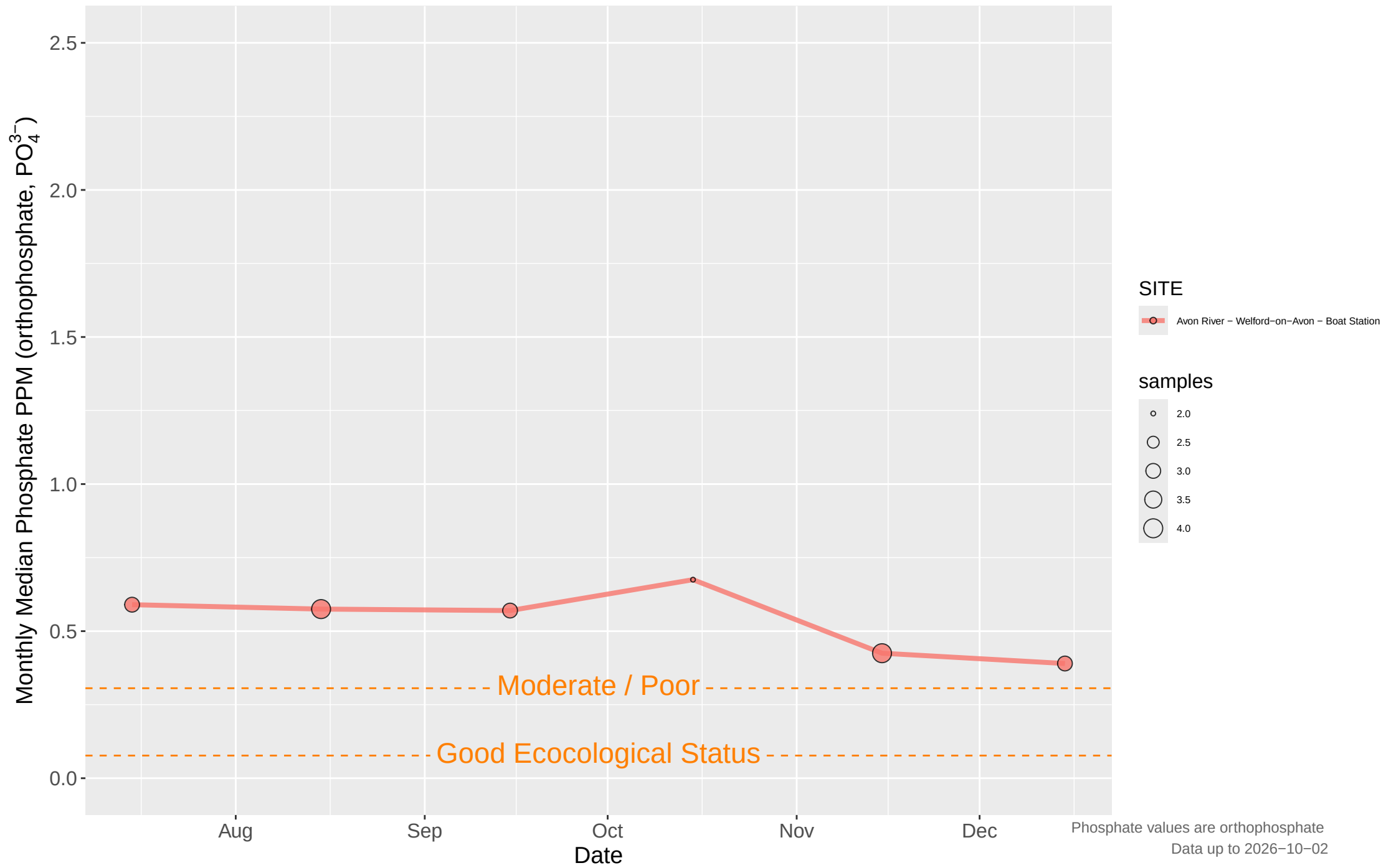


Summary for sites in Welford-on-Avon

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Avon River – Welford-on-Avon – Boat Station	2023-07-16	2023-12-17	19	1	0.54	5

SafeAvon Phosphates – By Month

Welford-on-Avon



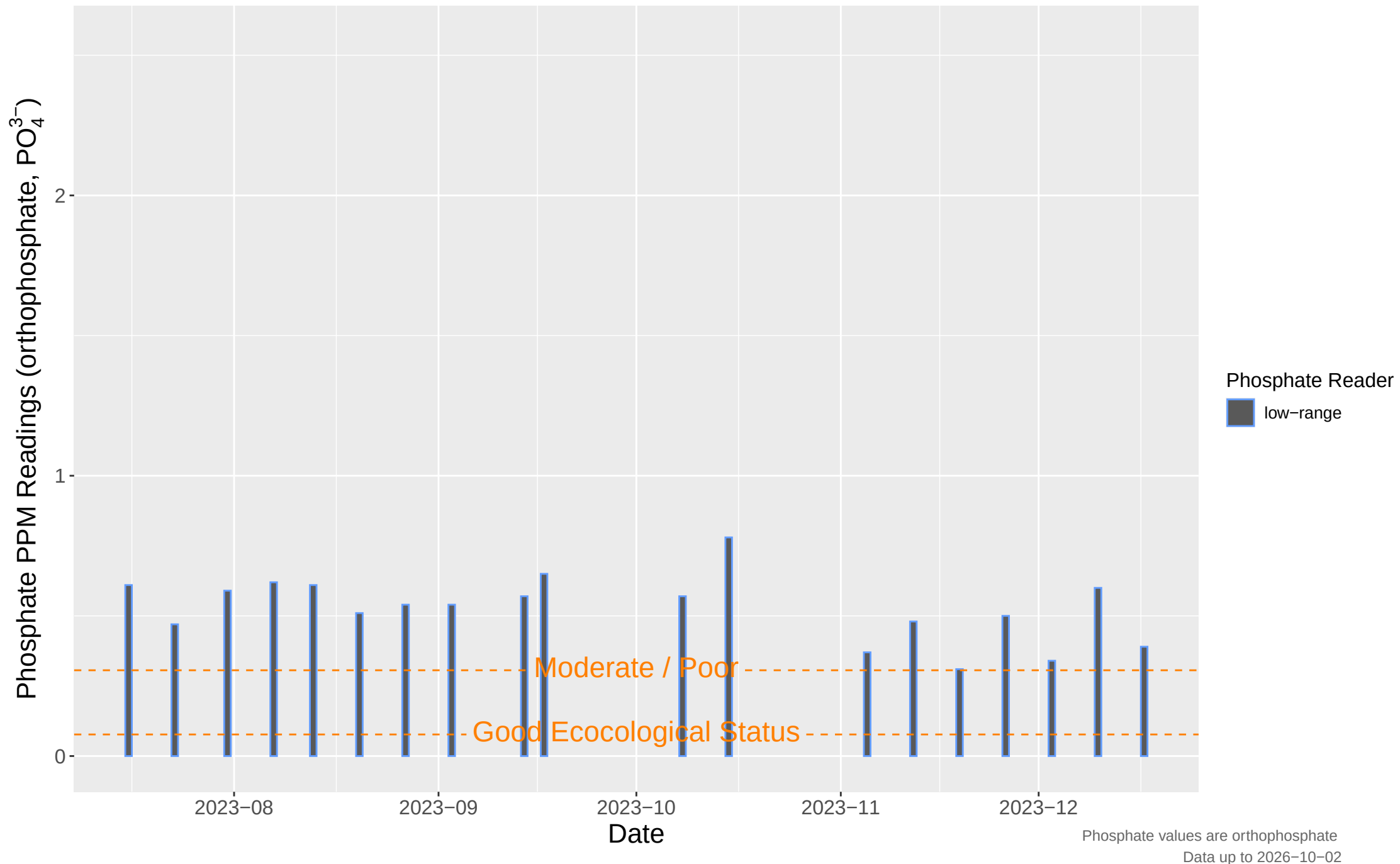
Site: Avon River – Welford-on-Avon – Boat Station

Start Date: 2023-07-16 | Most Recent: 2023-12-17 | Total Samples: 19 | Distinct Volunteers: 1

Season	Count		Phos Min	Phos Med	Phos Max		Nitr Min	Nitr Med	Nitr Max		EC Min	EC Med	EC Max		Temp Min	Temp Med	Temp Max
Summer 23	7		0.47	0.59	0.62		5	5	10		728	892	992		17.2	19.1	21.3
Autumn 23	9		0.31	0.54	0.78		2	5	20		570	830	1026		8.3	13.2	20.1
Winter 23-24	3		0.34	0.39	0.60		10	20	20		538	760	888		5.8	8.5	9.3

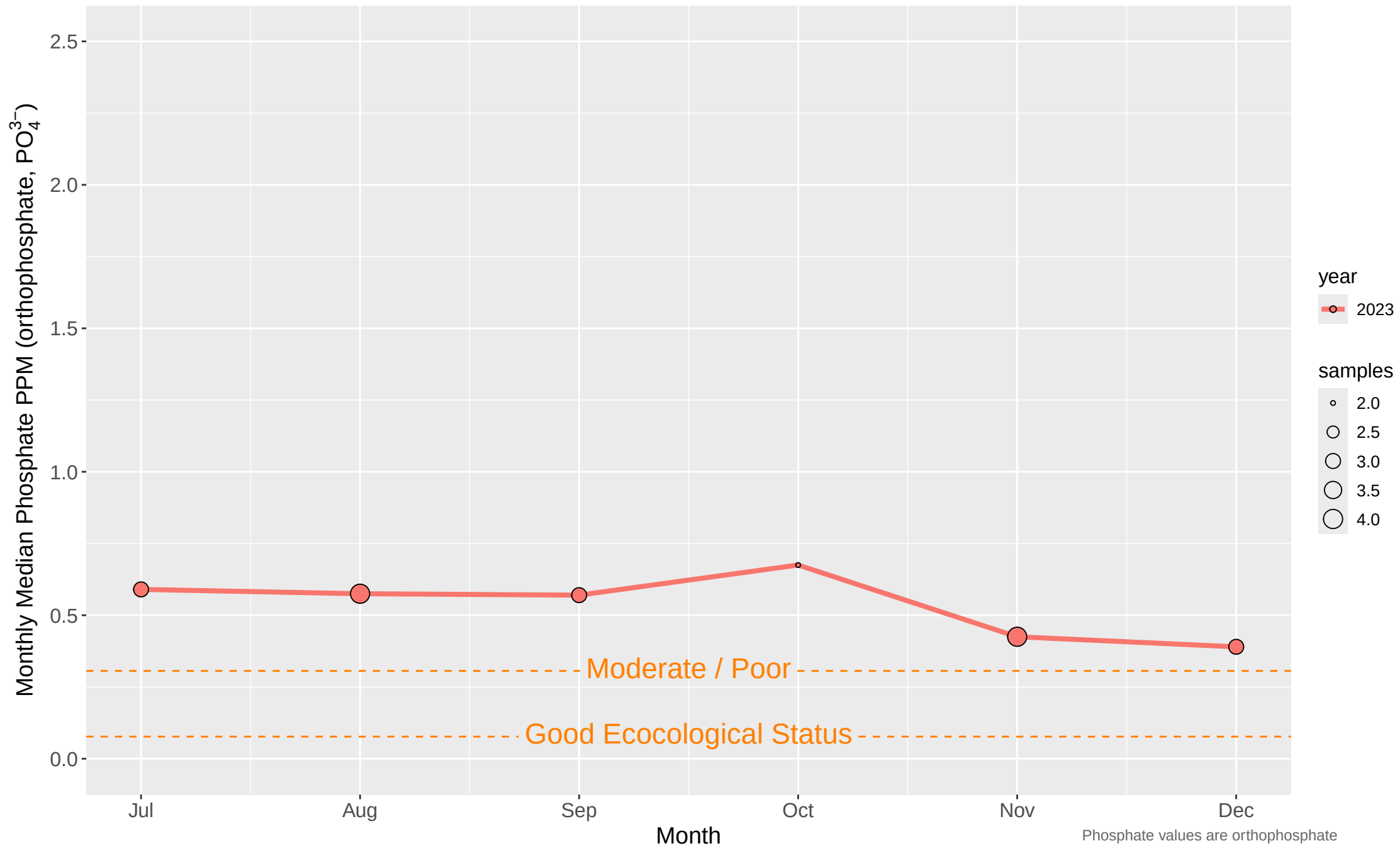
SafeAvon Phosphates – Individual Readings

Avon River – Welford-on-Avon – Boat Station



SafeAvon Phosphates – By Month

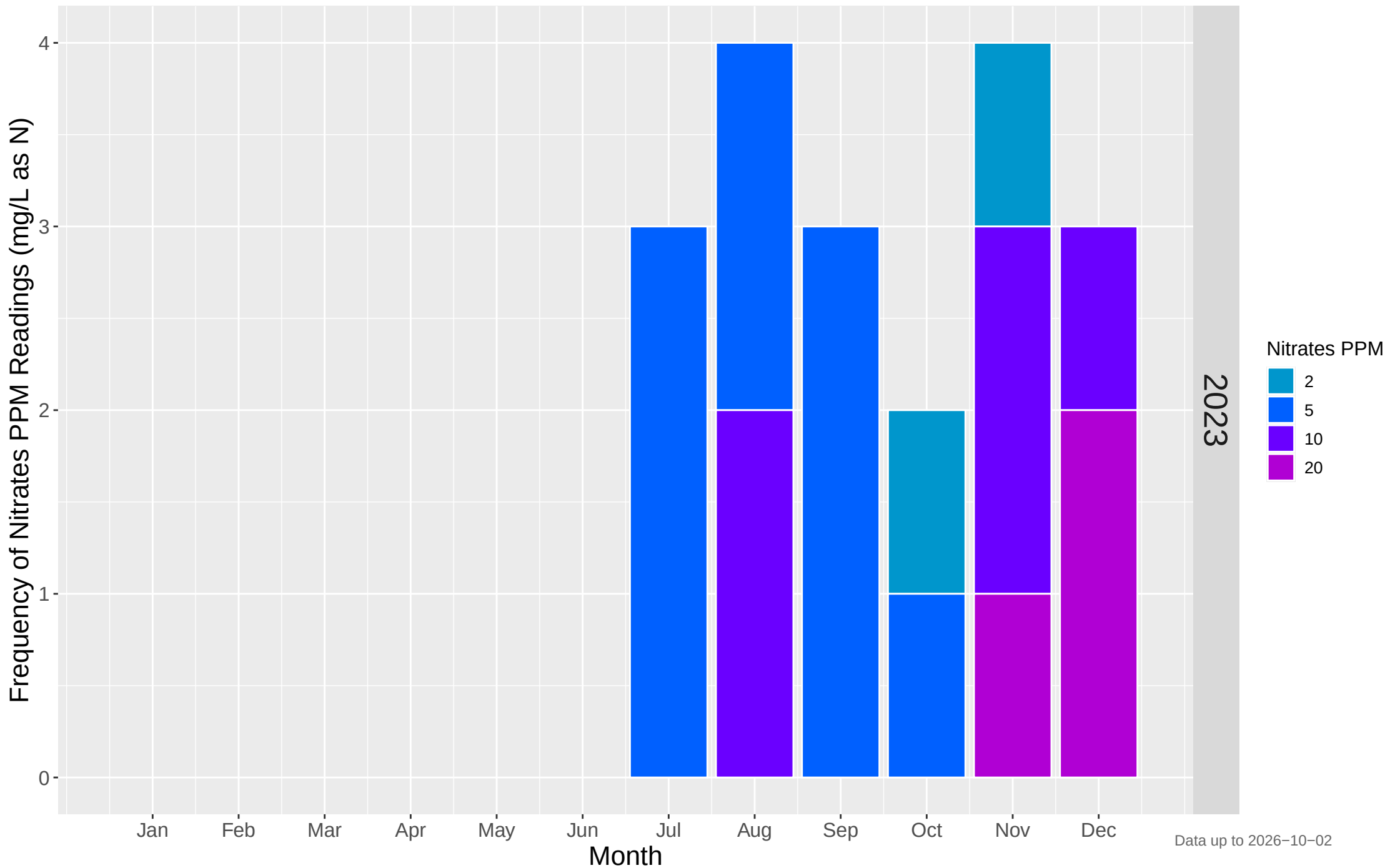
Avon River – Welford-on-Avon – Boat Station



Phosphate values are orthophosphate
Data up to 2026-10-02

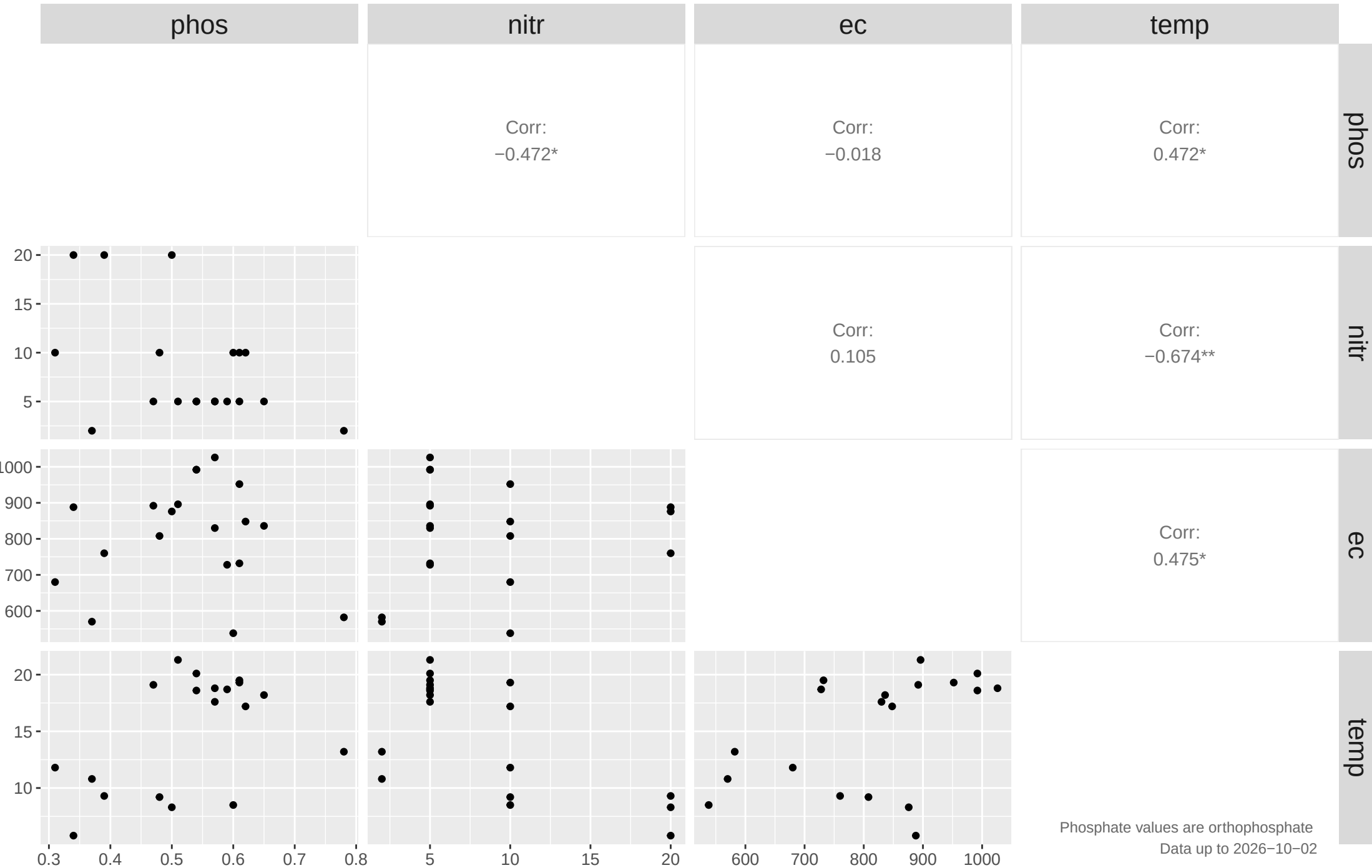
SafeAvon Nitrates By Month

Avon River – Welford-on-Avon – Boat Station



Pairwise Testing Variables Relationships

Avon River – Welford-on-Avon – Boat Station



Report Glossary & Interpretation Guide

Understanding the Charts

Pairwise Correlation Matrices

- . Valuation Scale (–1 to +1): Quantifies correlation between variables.
 - (+1) Perfect Positive Correlation: Variables track each other; if one scales up, the other increases.
 - (0) No Correlation: Variable movements appear independent.
 - (–1) Perfect Negative Correlation: Variables track inversely; when one scales up, the other drops.
- . Practical Application: If a pair of variables have a correlation approaching 1, it demonstrates that typically on any given sample, these values are likely to be strongly correlated. This indicates they may share similar sources and/or similar ways of exiting out into the watercourse.

Ecological Threshold Frameworks

Phosphate Status (Orthophosphate, PO₄–)

- Monitored using Hanna pocket checker:
- . High Status: $x < 0.077$ PPM
 - . Good Ecological Status: $0.077 \leq x \leq 0.306$ PPM
 - . Moderate / Poor Ecological Status: $x > 0.306$ PPM

Nitrate Levels (Nitrate–as–N)

- Monitored using WaterWorks/Hach Nitrate kit:
- . Natural Levels: $x < 1.0$ PPM
 - . Elevated Levels: $1.0 \leq x < 5.0$ PPM
 - . Excessive Levels: $x \geq 5.0$ PPM

Data Access

Data pulled from EpiCollect API.
Full dataset accessible via SafeAvon website which has links to EpiCollect and the Google Sheet.
URL: https://safeavon.org.uk/?page_id=151