

SafeAvon Nutrient Testing Report: Barford

SafeAvon Sites By Waterway

Avon River

- . Barford – Barford Community Orchard
- . Barford – Hampton Wood
- . Barford – Verdon Place

SafeAvon Locations in Barford

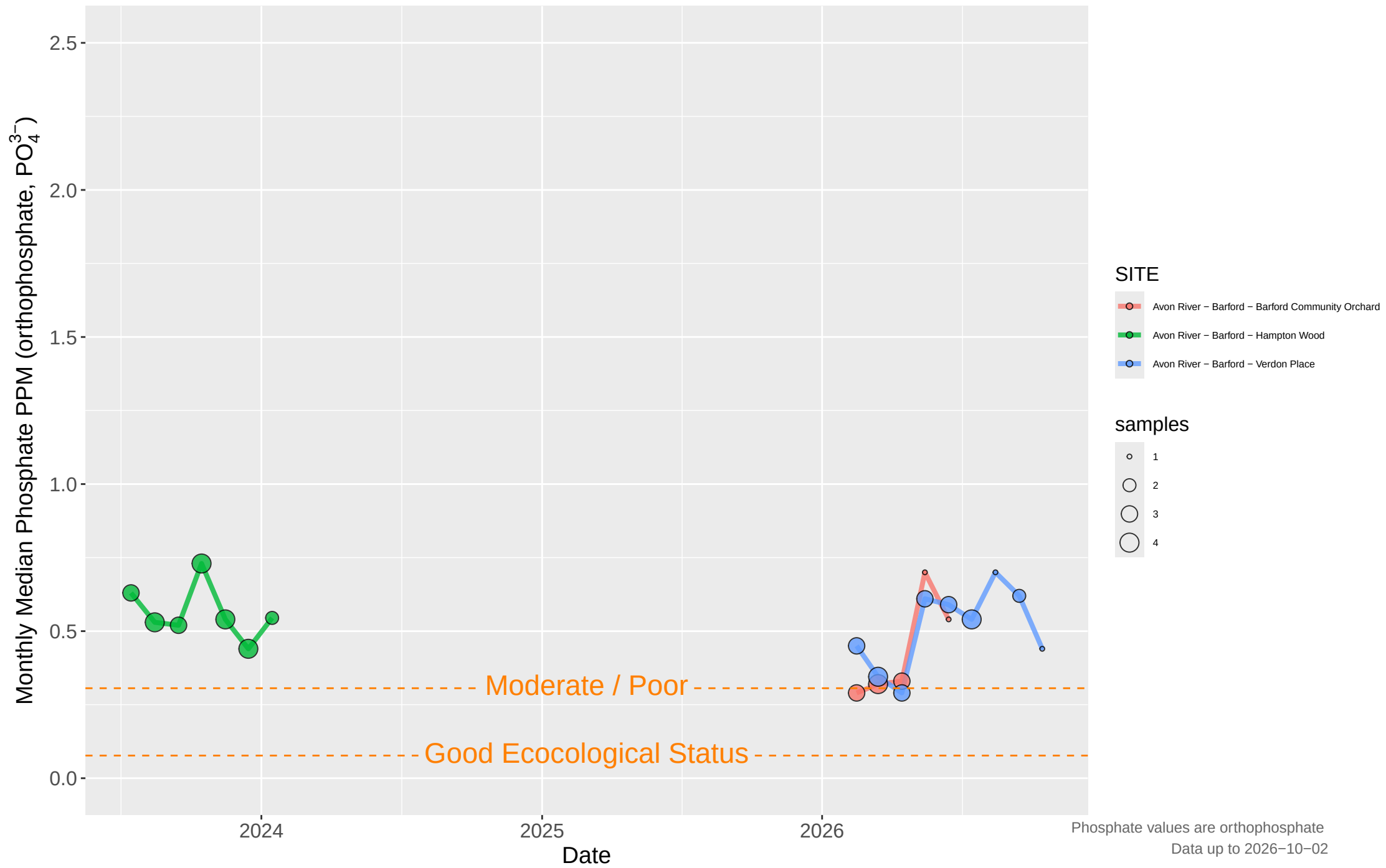


Summary for sites in Barford

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Avon River – Barford – Verdon Place	2026-02-02	2026-10-01	24	2	0.515	15
Avon River – Barford – Barford Community Orchard	2026-02-02	2026-06-26	12	1	0.335	10
Avon River – Barford – Hampton Wood	2023-07-16	2024-01-21	24	1	0.575	5

SafeAvon Phosphates – By Month

Barford



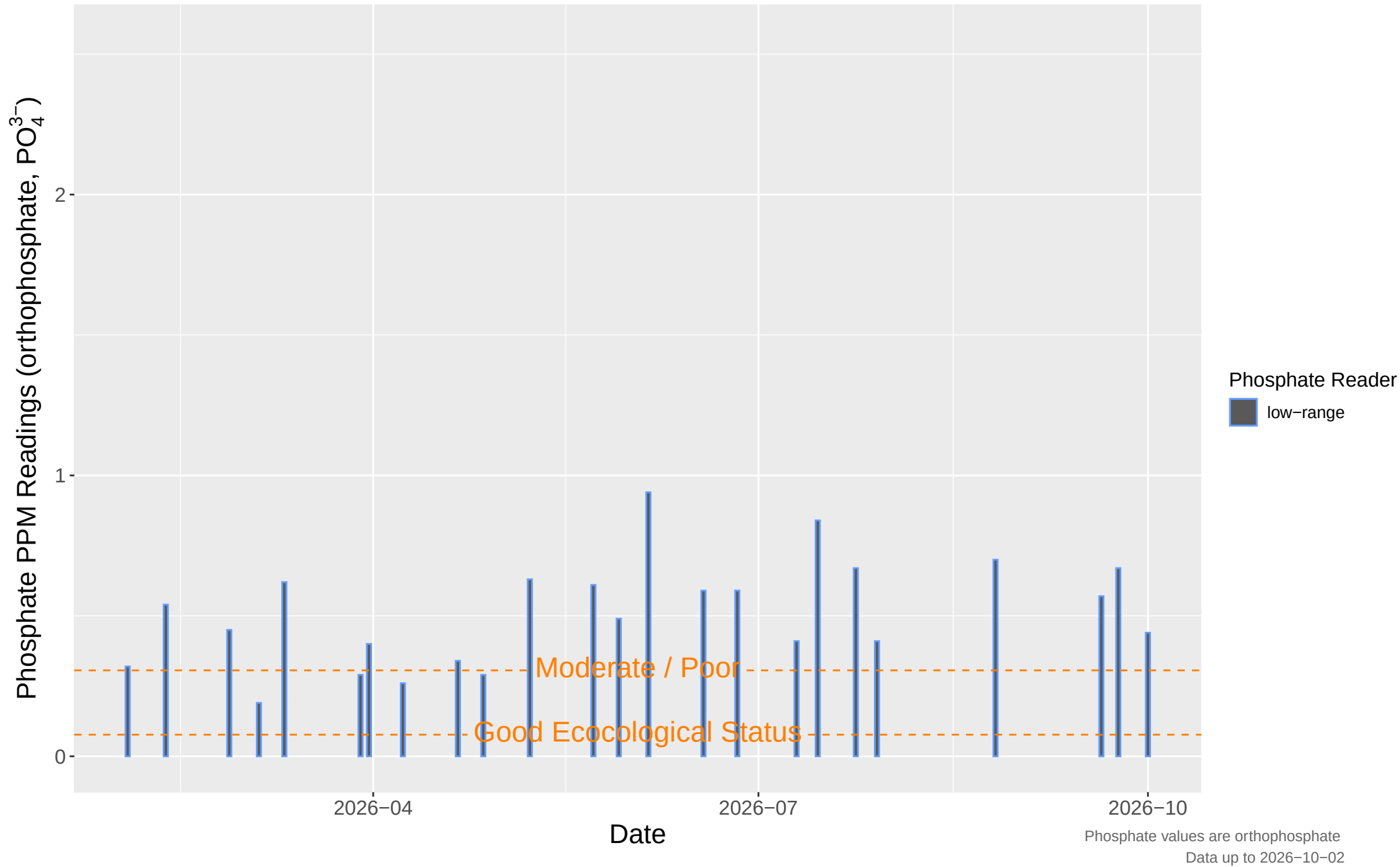
Site: Avon River – Barford – Verdon Place

Start Date: 2026-02-02 | Most Recent: 2026-10-01 | Total Samples: 24 | Distinct Volunteers: 2

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
Winter 25–26	3		0.32	0.45	0.54		5	10	10		277	323	350		9.4	9.9	11.5
Spring 26	10		0.19	0.37	0.63		1	10	20		321	435	482		10.1	14.6	20.3
Summer 26	8		0.41	0.63	0.94		10	20	20		72	476	498		18.4	21.6	26.5
Autumn 26	3		0.44	0.57	0.67		10	20	20		448	494	499		17.7	18.1	19.0

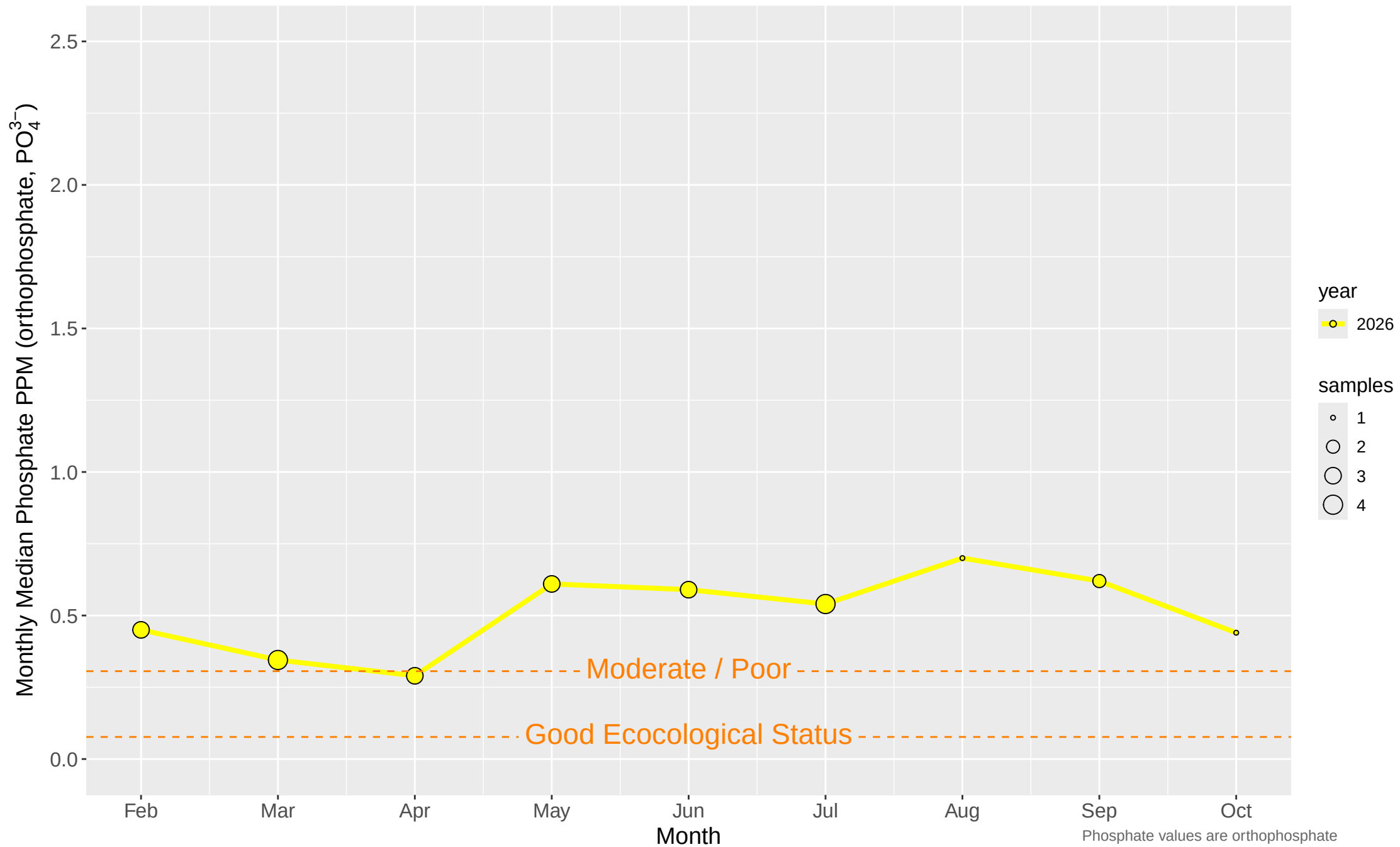
SafeAvon Phosphates – Individual Readings

Avon River – Barford – Verdon Place



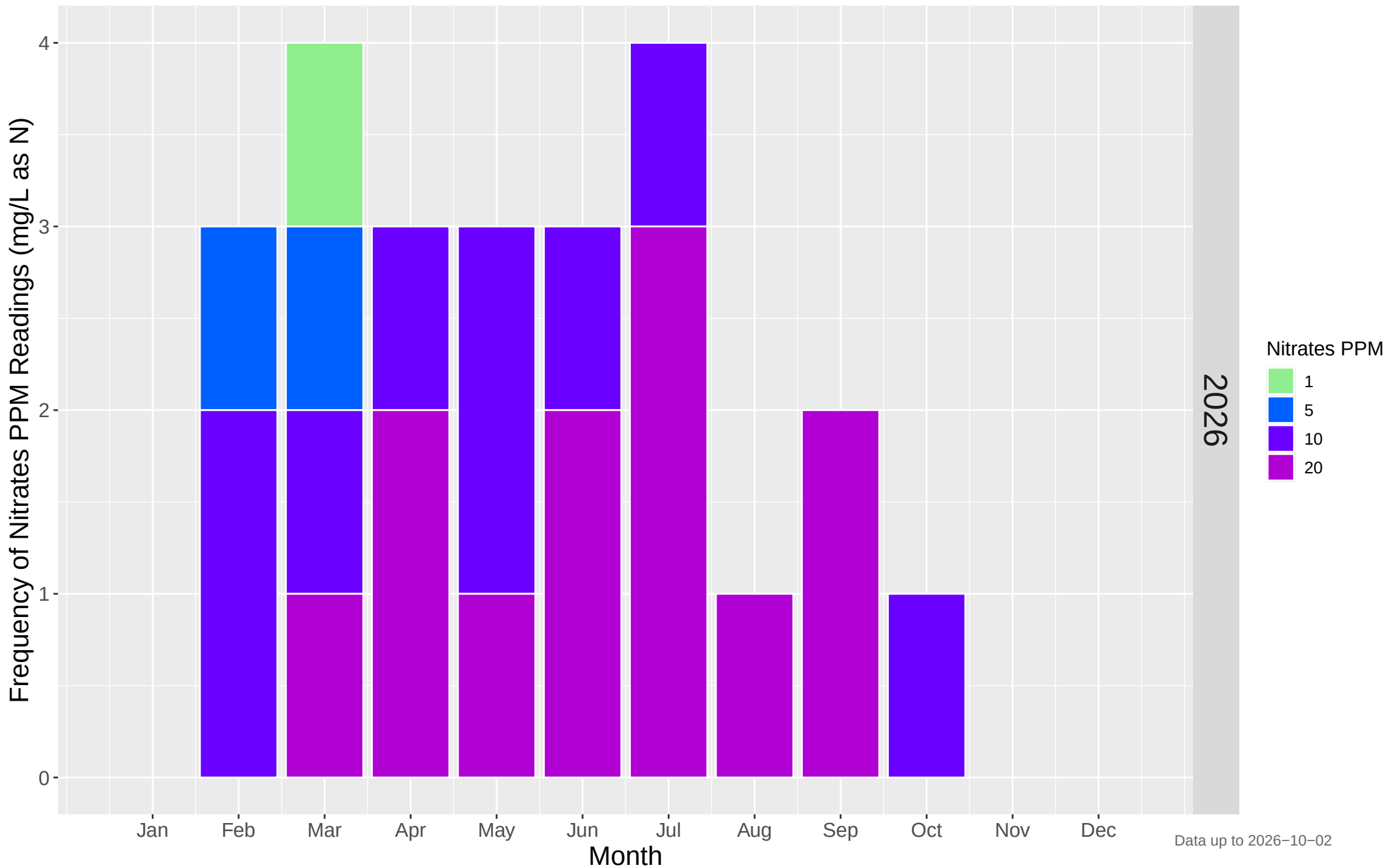
SafeAvon Phosphates – By Month

Avon River – Barford – Verdon Place



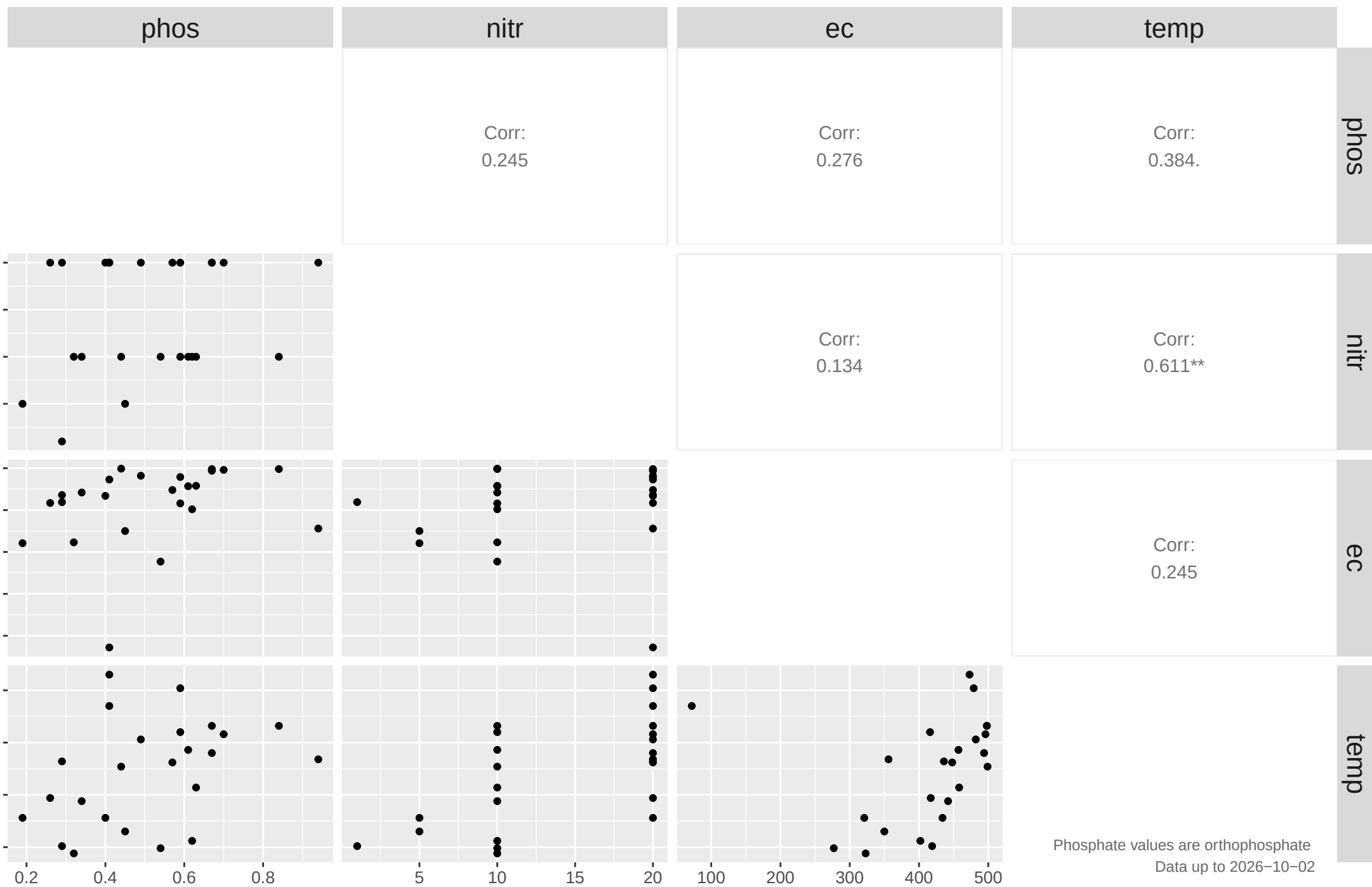
SafeAvon Nitrates By Month

Avon River – Barford – Verdon Place



Pairwise Testing Variables Relationships

Avon River – Barford – Verdon Place



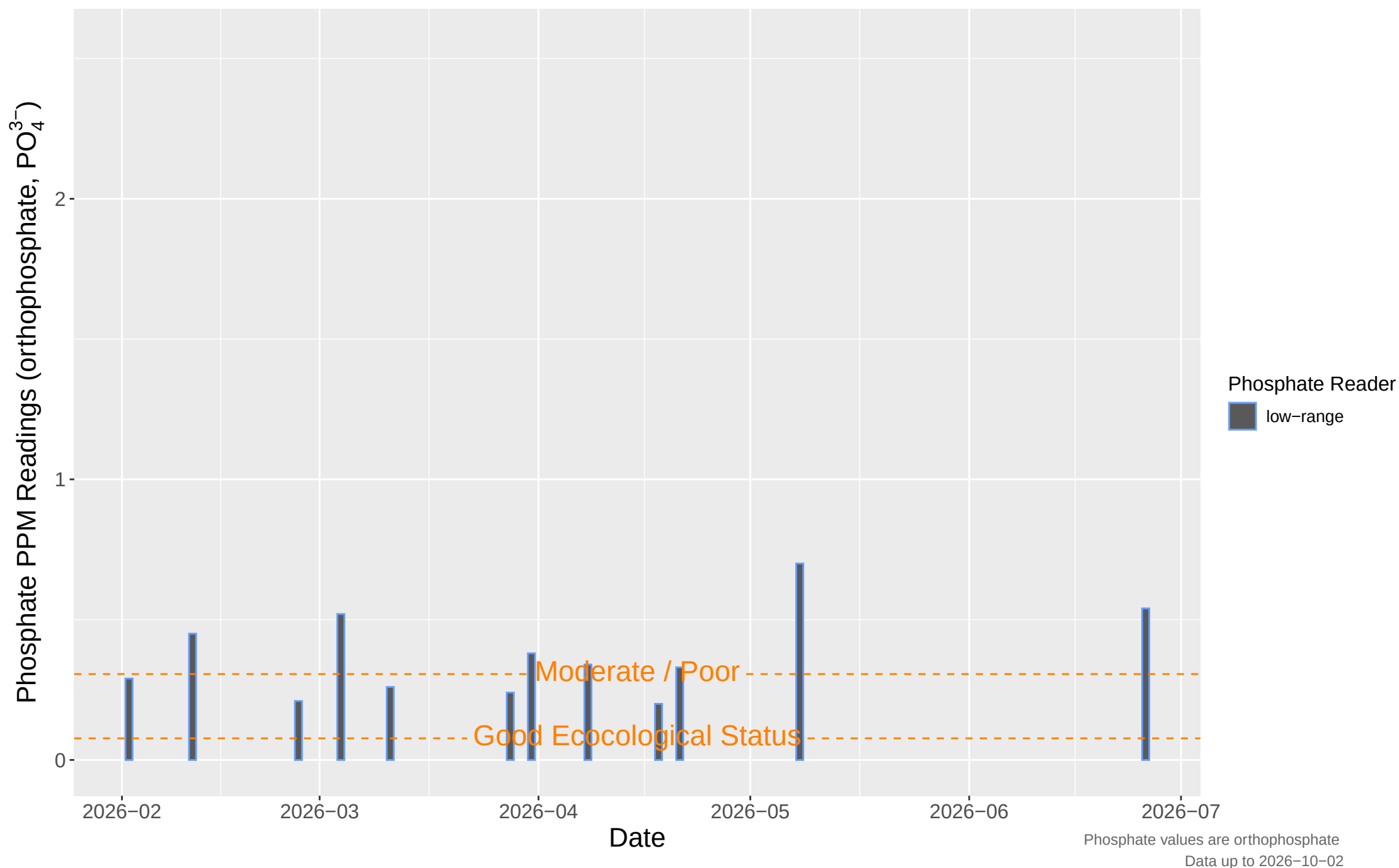
Site: Avon River – Barford – Barford Community Orchard

Start Date: 2026-02-02 | Most Recent: 2026-06-26 | Total Samples: 12 | 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
Winter 25–26	3		0.21	0.29	0.45		5	10	10		273	321	348		9.6	10.0	12.1
Spring 26	8		0.20	0.34	0.70		0	10	20		313	412	459		10.7	14.1	16.5
Summer 26	1		0.54	0.54	0.54		10	10	10		473	473	473		26.0	26.0	26.0

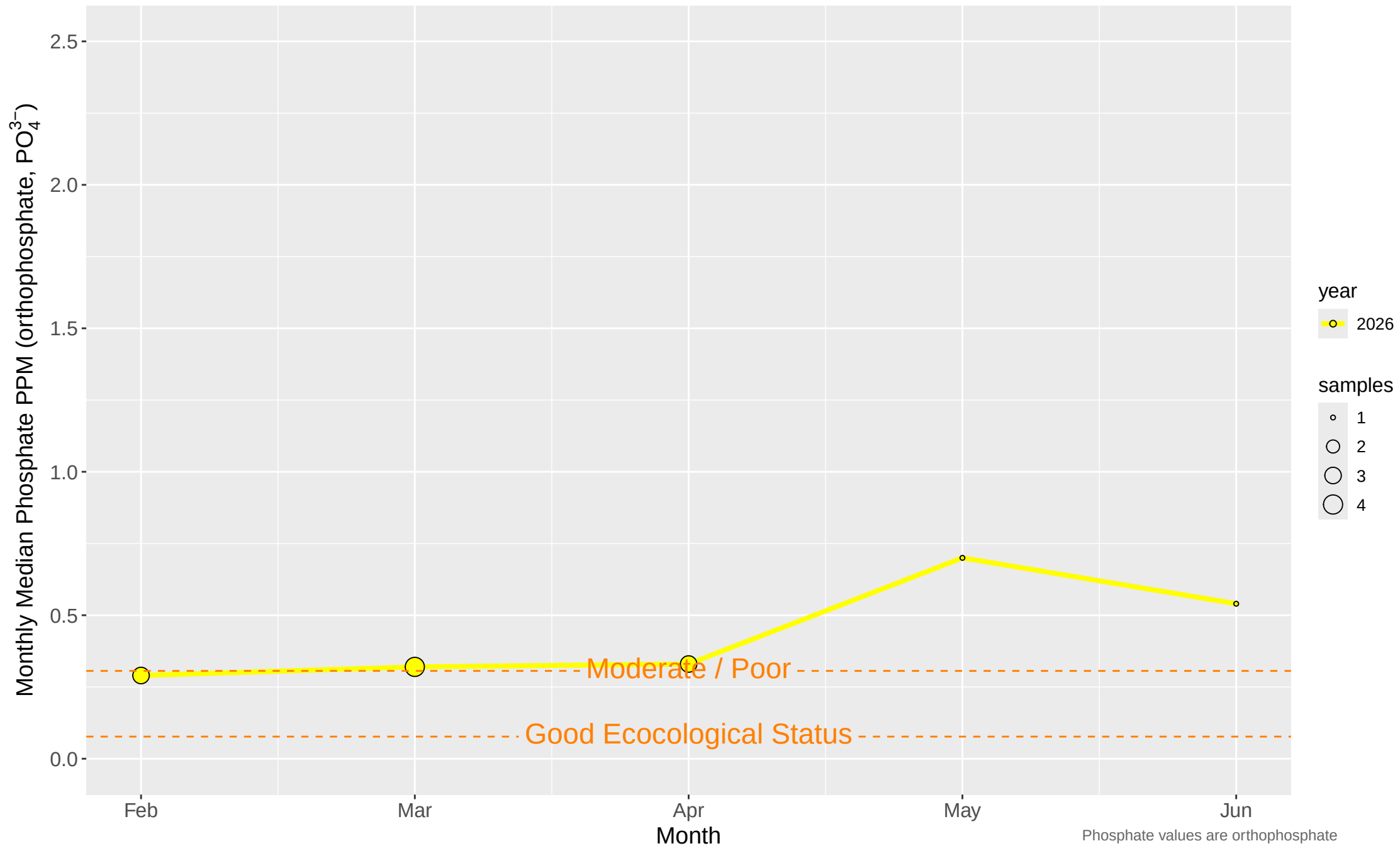
SafeAvon Phosphates – Individual Readings

Avon River – Barford – Barford Community Orchard



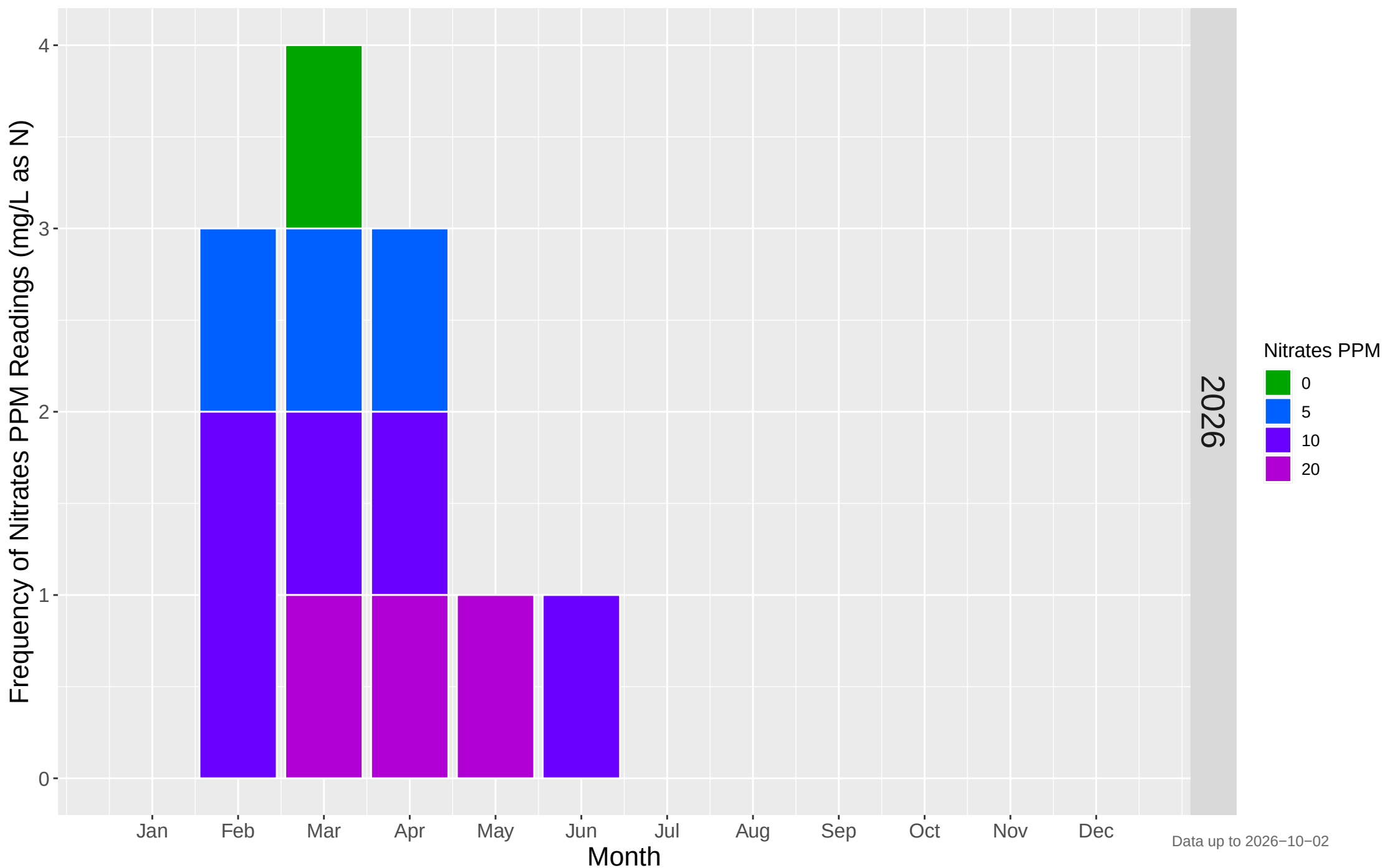
SafeAvon Phosphates – By Month

Avon River – Barford – Barford Community Orchard



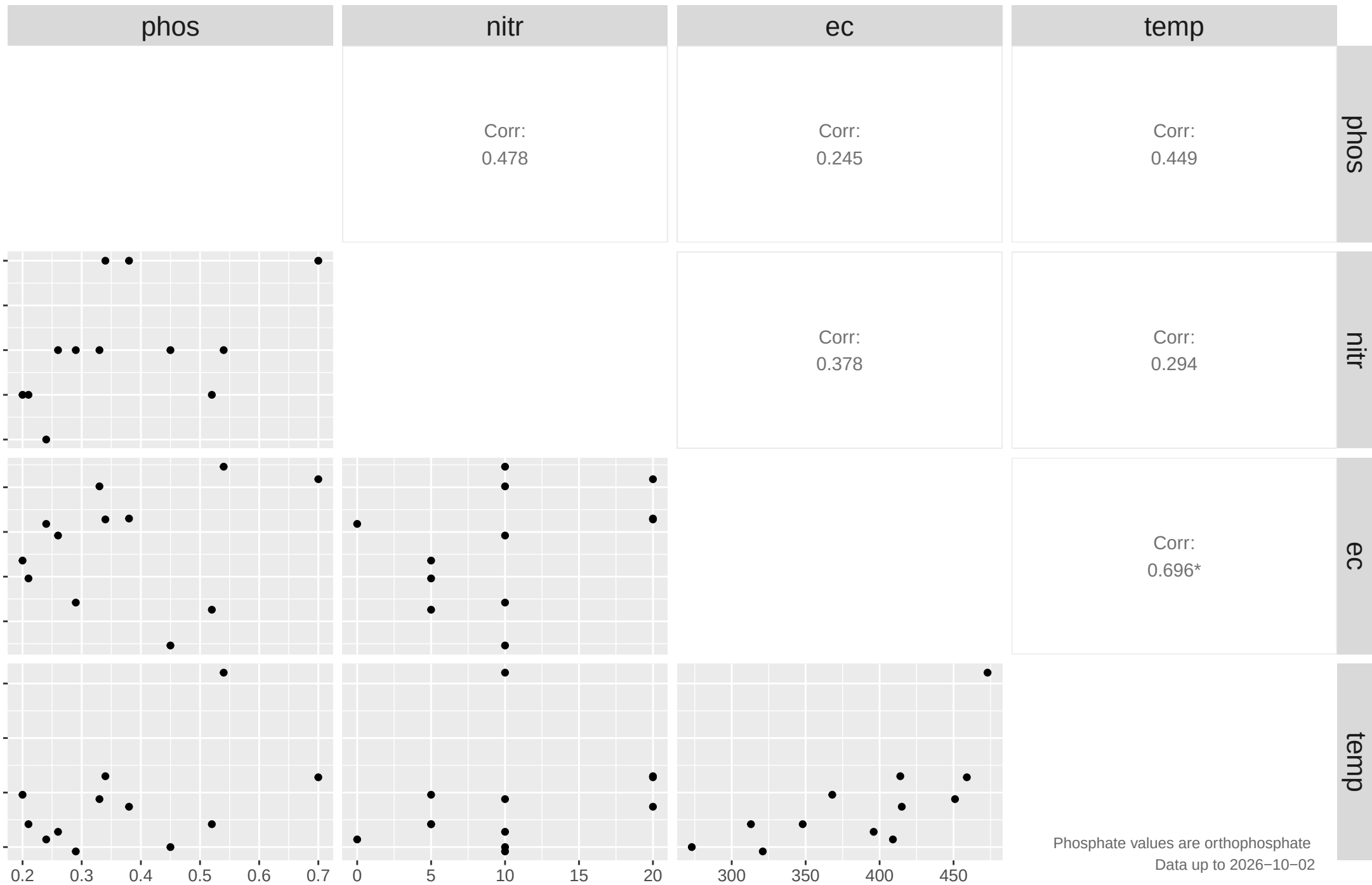
SafeAvon Nitrates By Month

Avon River – Barford – Barford Community Orchard



Pairwise Testing Variables Relationships

Avon River – Barford – Barford Community Orchard



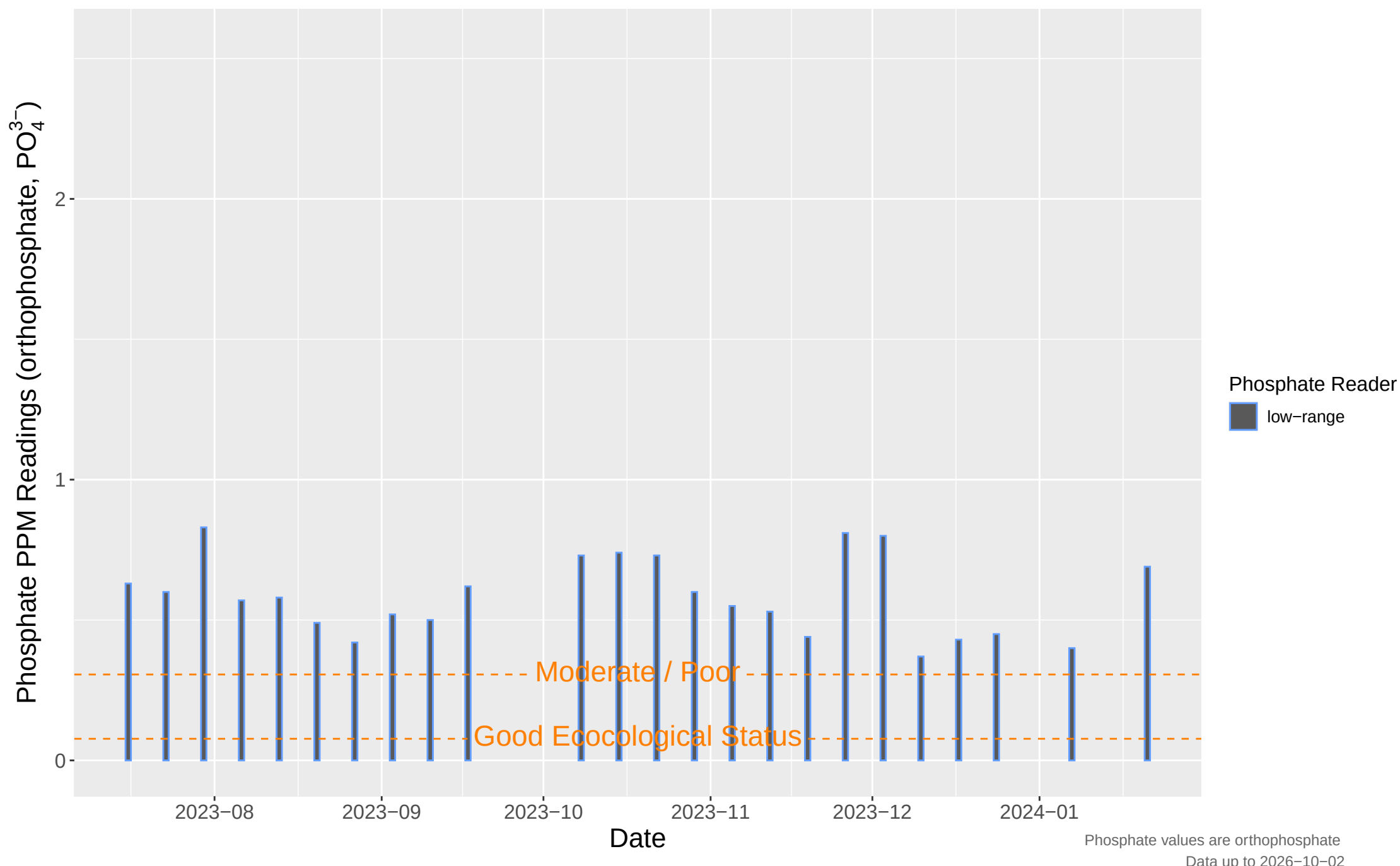
Site: Avon River – Barford – Hampton Wood

Start Date: 2023-07-16 | Most Recent: 2024-01-21 | Total Samples: 24 | 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		0.42	0.58	0.83		5	5	10		682	806	950		17.4	18.6	21.4
Autumn 23	11		0.44	0.60	0.81		2	5	10		530	846	984		7.6	12.6	22.3
Winter 23-24	6		0.37	0.44	0.80		5	10	20		536	730	920		6.1	8.6	12.0

SafeAvon Phosphates – Individual Readings

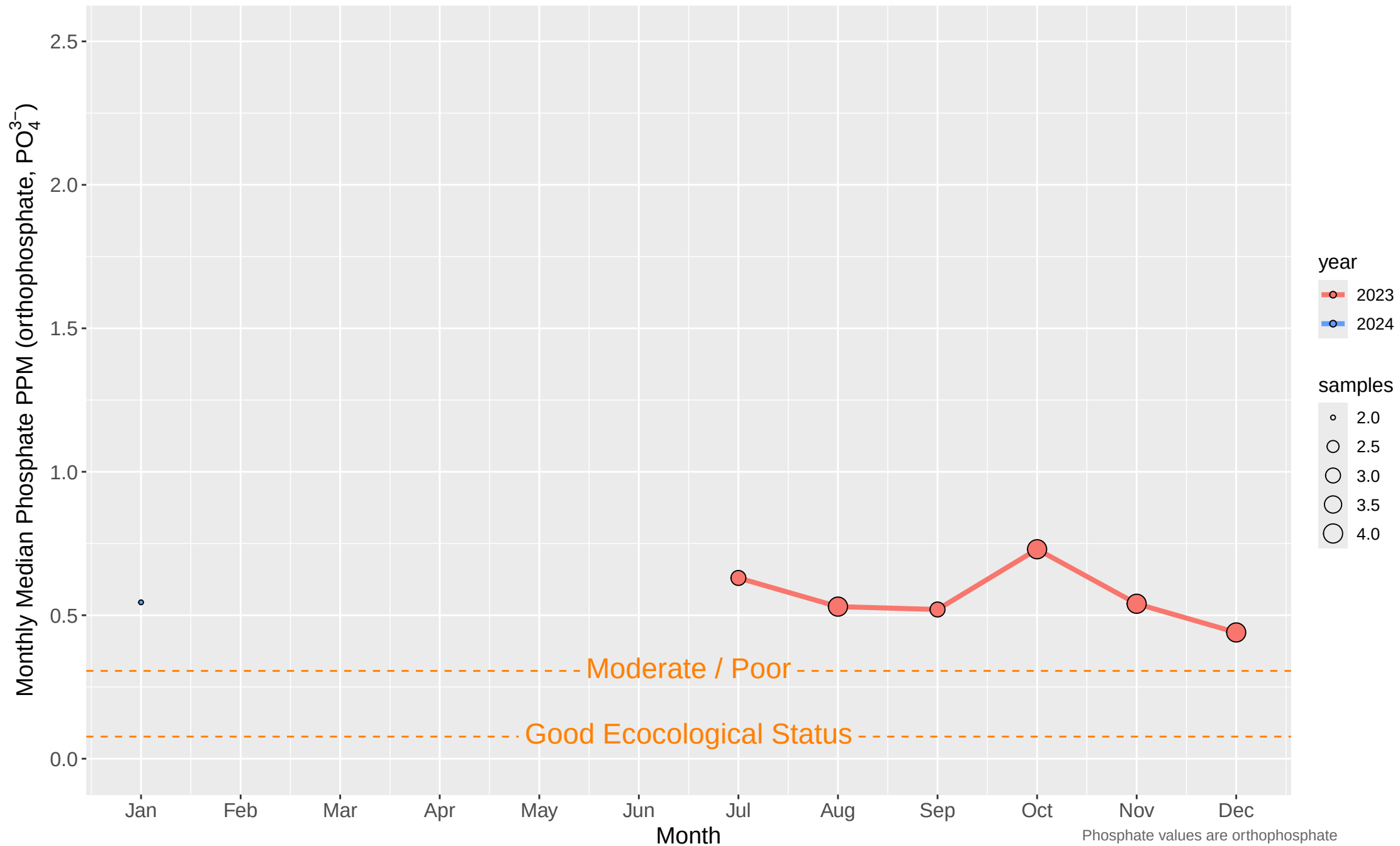
Avon River – Barford – Hampton Wood



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

SafeAvon Phosphates – By Month

Avon River – Barford – Hampton Wood

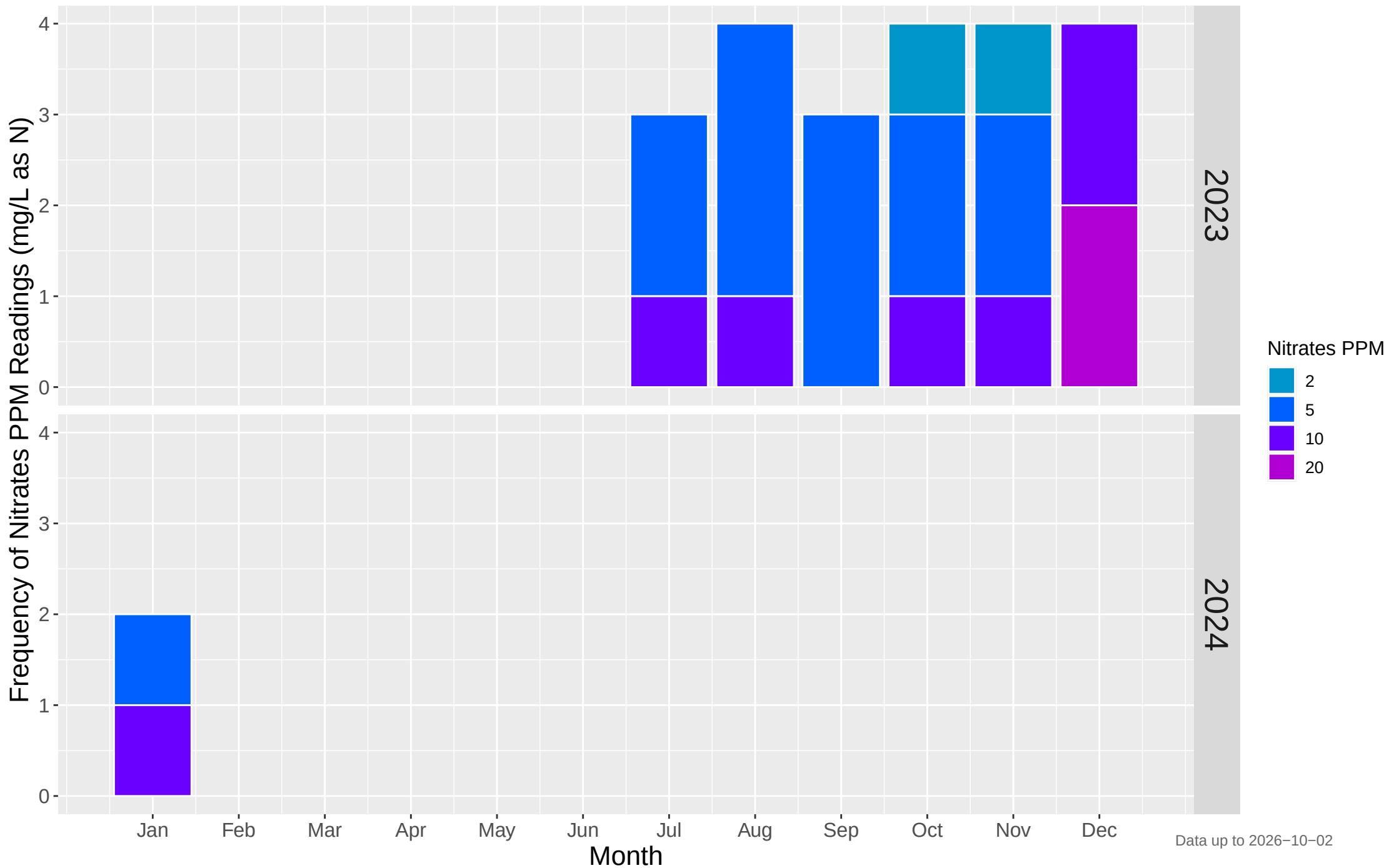


Phosphate values are orthophosphate

Data up to 2026-10-02

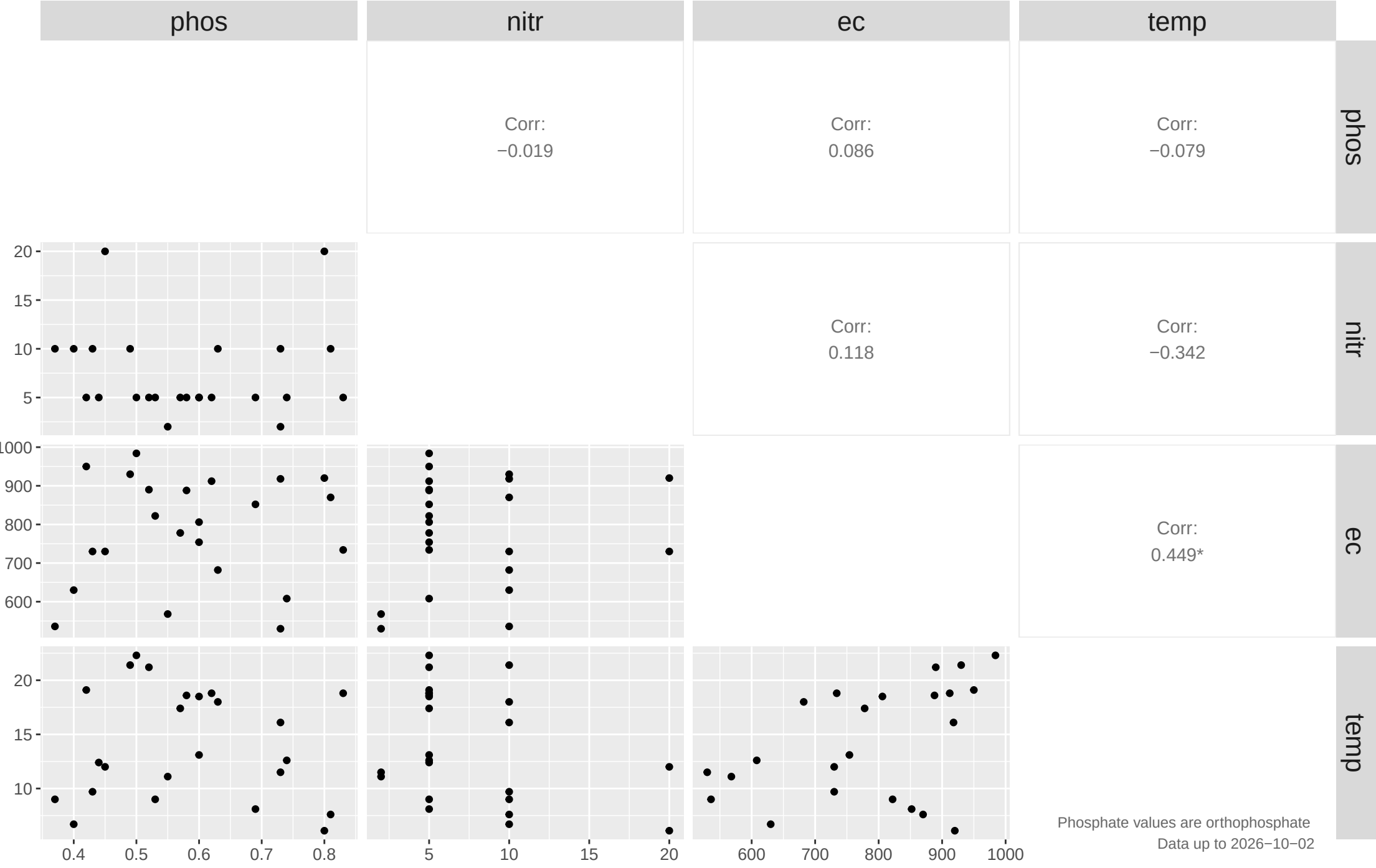
SafeAvon Nitrates By Month

Avon River – Barford – Hampton Wood



Pairwise Testing Variables Relationships

Avon River – Barford – Hampton Wood



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^{3–})

- 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