

SafeAvon Nutrient Testing Report: Pershore

SafeAvon Sites By Waterway

Avon River

- . Pershore – Leisure Centre
- . Pershore – Pershore Bridges

Bow Brook

- . Pershore – Walcot Ln

SafeAvon Locations in Pershore



Summary for sites in Pershore

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Bow Brook – Pershore – Walcot Ln	2024-03-01	2026-09-30	69	1	1.07	5.0
Avon River – Pershore – Pershore Bridges	2024-01-22	2026-05-11	35	5	0.59	10.0
Avon River – Pershore – Leisure Centre	2024-01-22	2024-02-17	2	1	0.58	7.5

SafeAvon Phosphates – By Month

Pershore



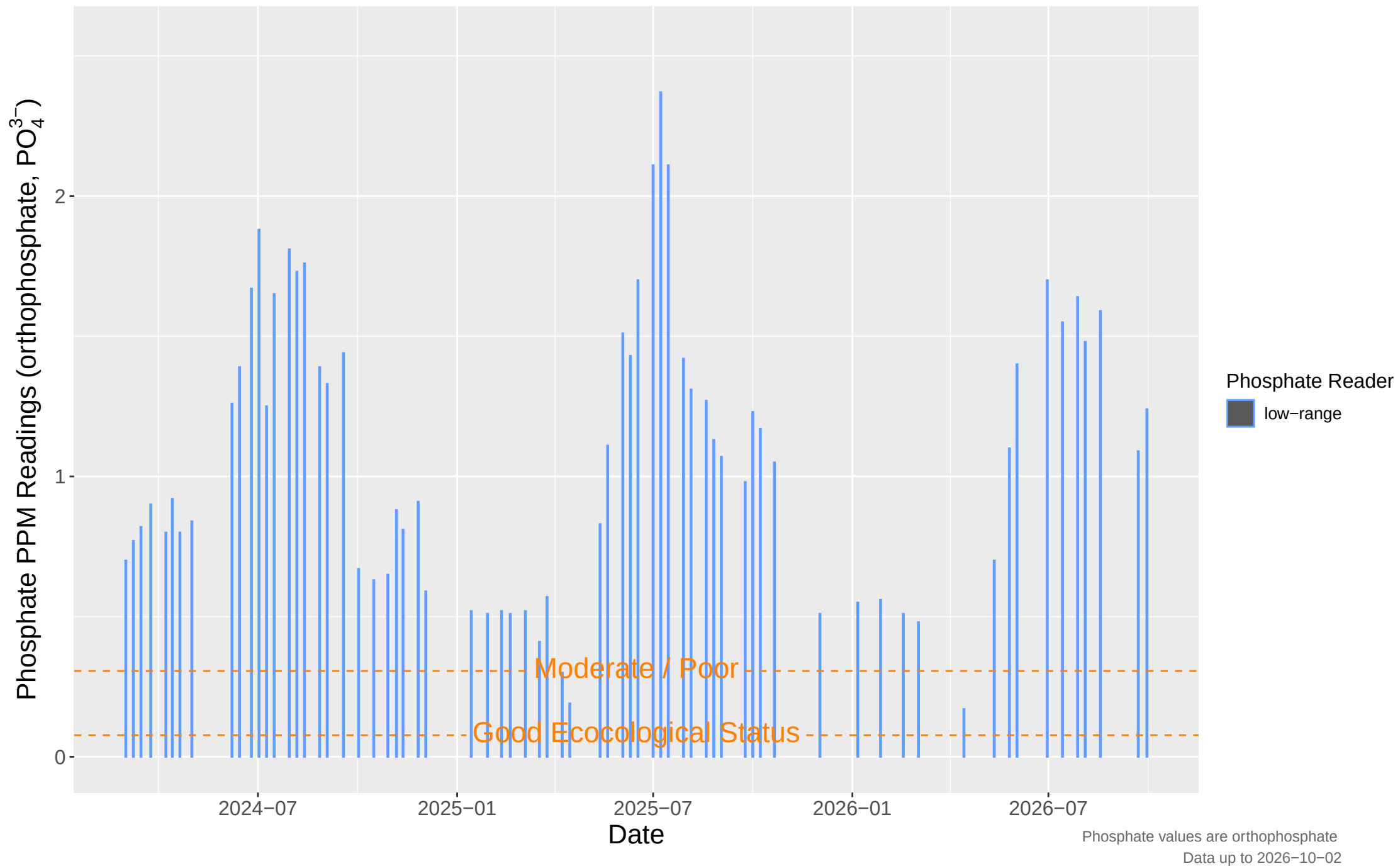
Site: Bow Brook – Pershore – Walcot Ln

Start Date: 2024-03-01 | Most Recent: 2026-09-30 | Total Samples: 69 | 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
Spring 24	8		0.70	0.81	0.92		5.0	5.0	5.0		693	860	1090		8.8	13.4	16.0
Summer 24	10		1.25	1.66	1.88		5.0	5.0	5.0		873	1250	1310		14.1	16.9	20.9
Autumn 24	8		0.63	0.84	1.44		5.0	5.0	5.0		620	1135	1260		9.8	14.2	17.2
Winter 24-25	5		0.51	0.52	0.59		2.0	5.0	5.0		528	957	998		5.4	7.2	9.6
Spring 25	7		0.19	0.52	1.11		2.0	5.0	5.0		1010	1190	1290		8.8	13.2	18.2
Summer 25	10		1.13	1.47	2.37		2.0	2.0	5.0		1060	1150	1240		16.8	19.3	23.3
Autumn 25	5		0.98	1.07	1.23		2.0	2.0	5.0		1120	1190	1330		13.3	14.4	17.3
Winter 25-26	4		0.51	0.53	0.56		2.0	3.5	5.0		525	810	1020		4.5	8.4	11.4
Spring 26	4		0.17	0.59	1.10		2.0	2.0	5.0		720	1130	1240		11.8	12.6	22.3
Summer 26	6		1.40	1.57	1.70		0.5	2.0	2.0		1040	1105	1180		18.4	20.9	22.0
Autumn 26	2		1.09	1.17	1.24		0.5	0.5	0.5		1100	1100	1100		17.2	17.2	17.2

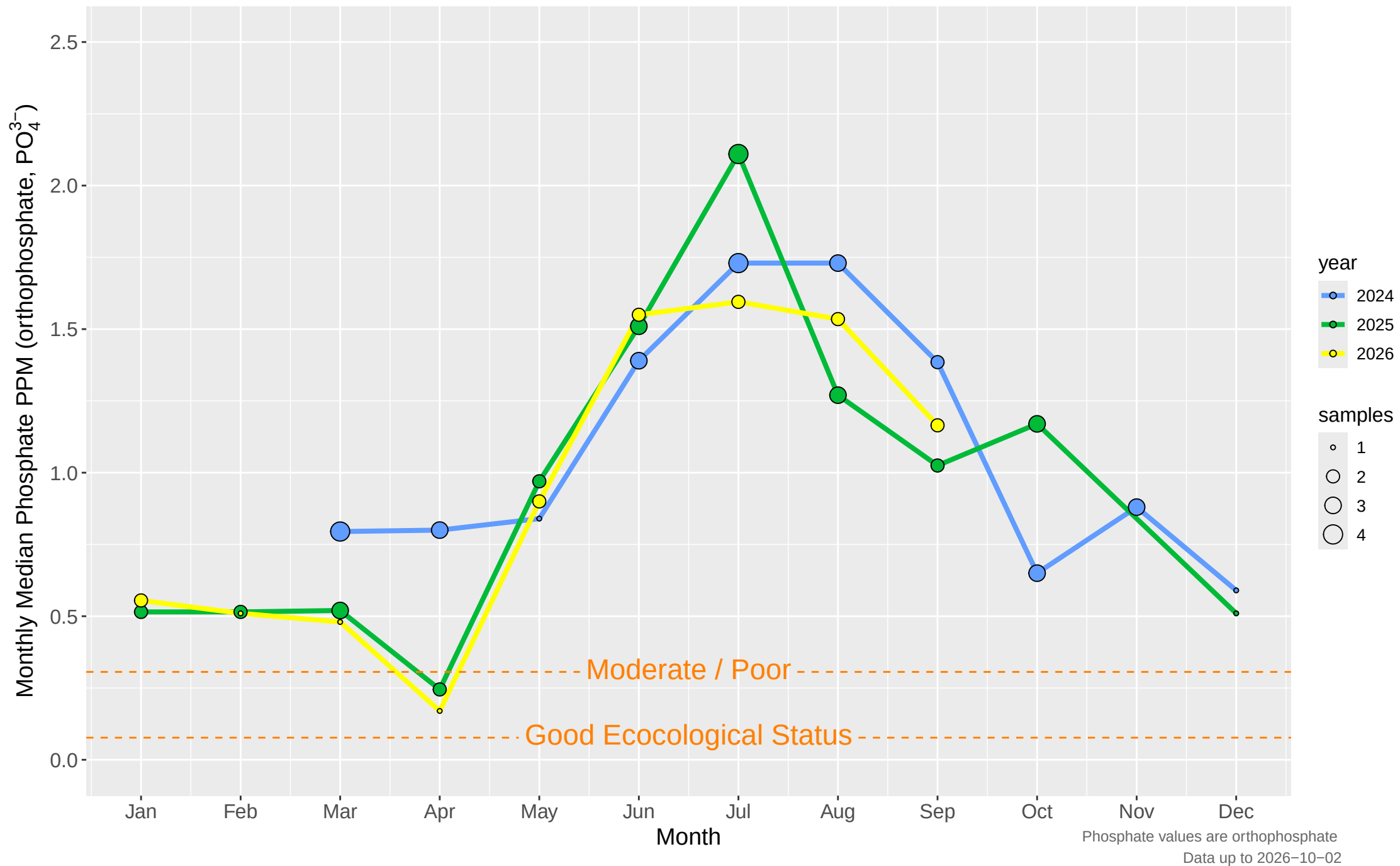
SafeAvon Phosphates – Individual Readings

Bow Brook – Pershore – Walcot Ln



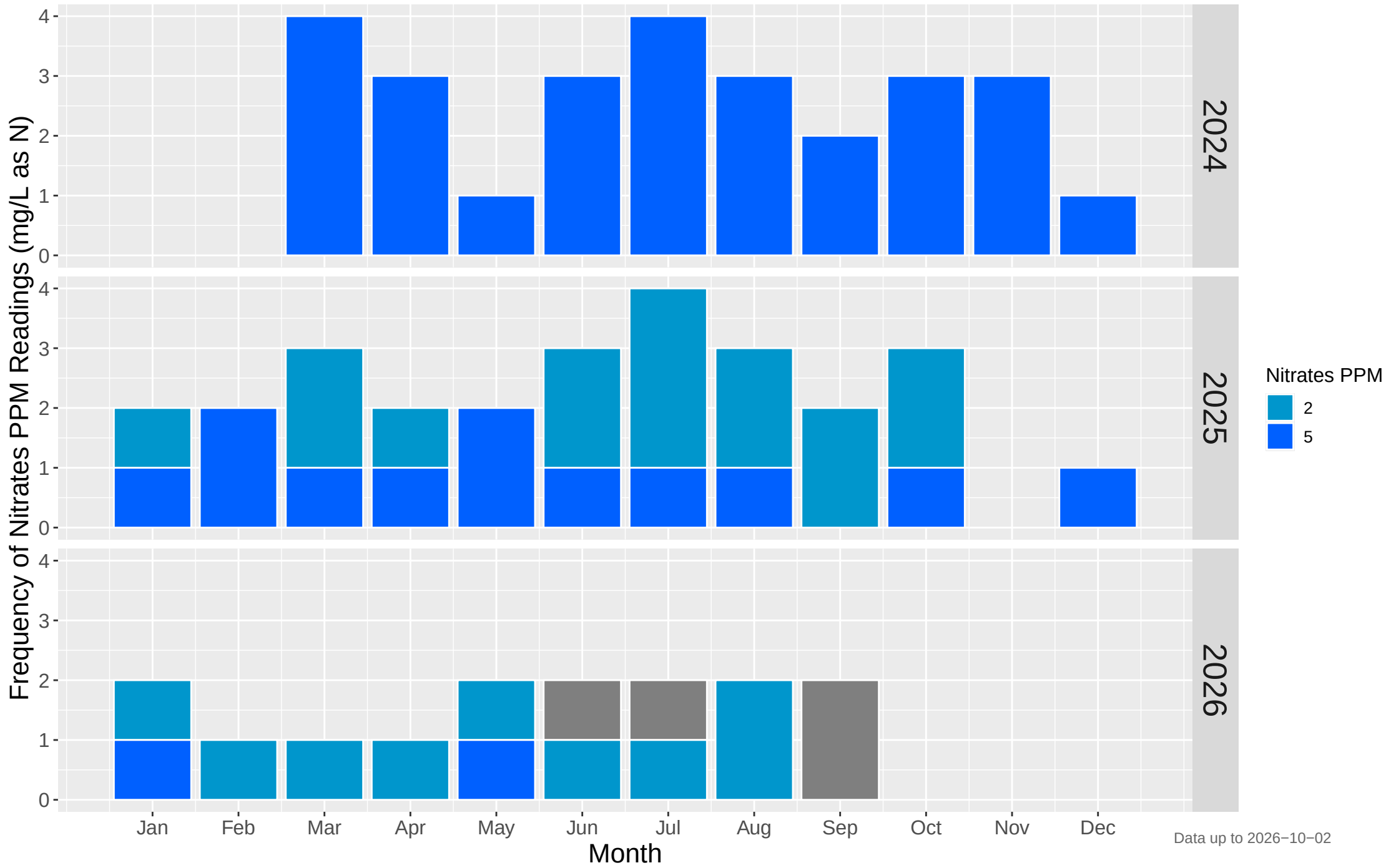
SafeAvon Phosphates – By Month

Bow Brook – Pershore – Walcot Ln



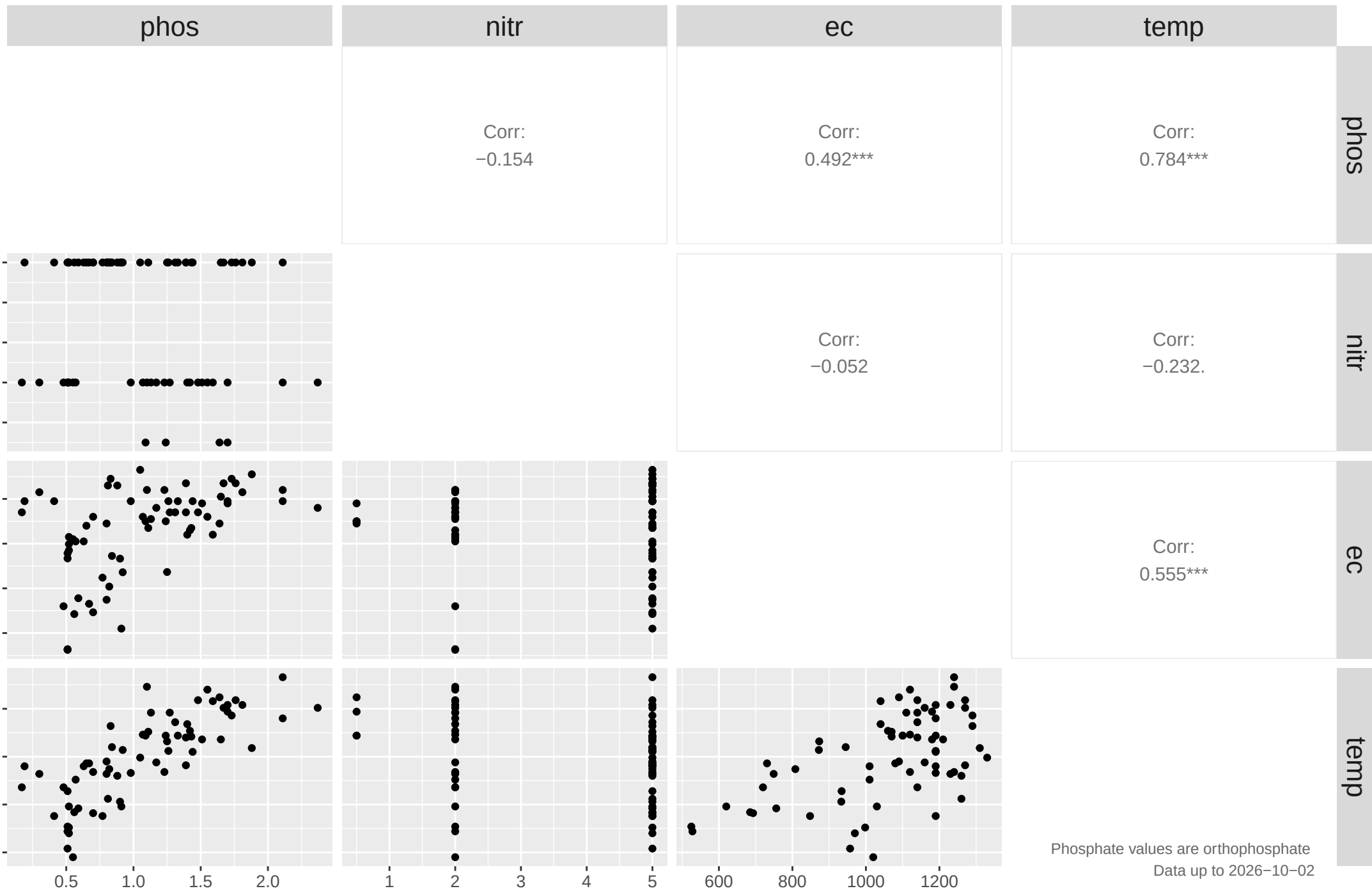
SafeAvon Nitrates By Month

Bow Brook – Pershore – Walcot Ln



Pairwise Testing Variables Relationships

Bow Brook – Pershore – Walcot Ln



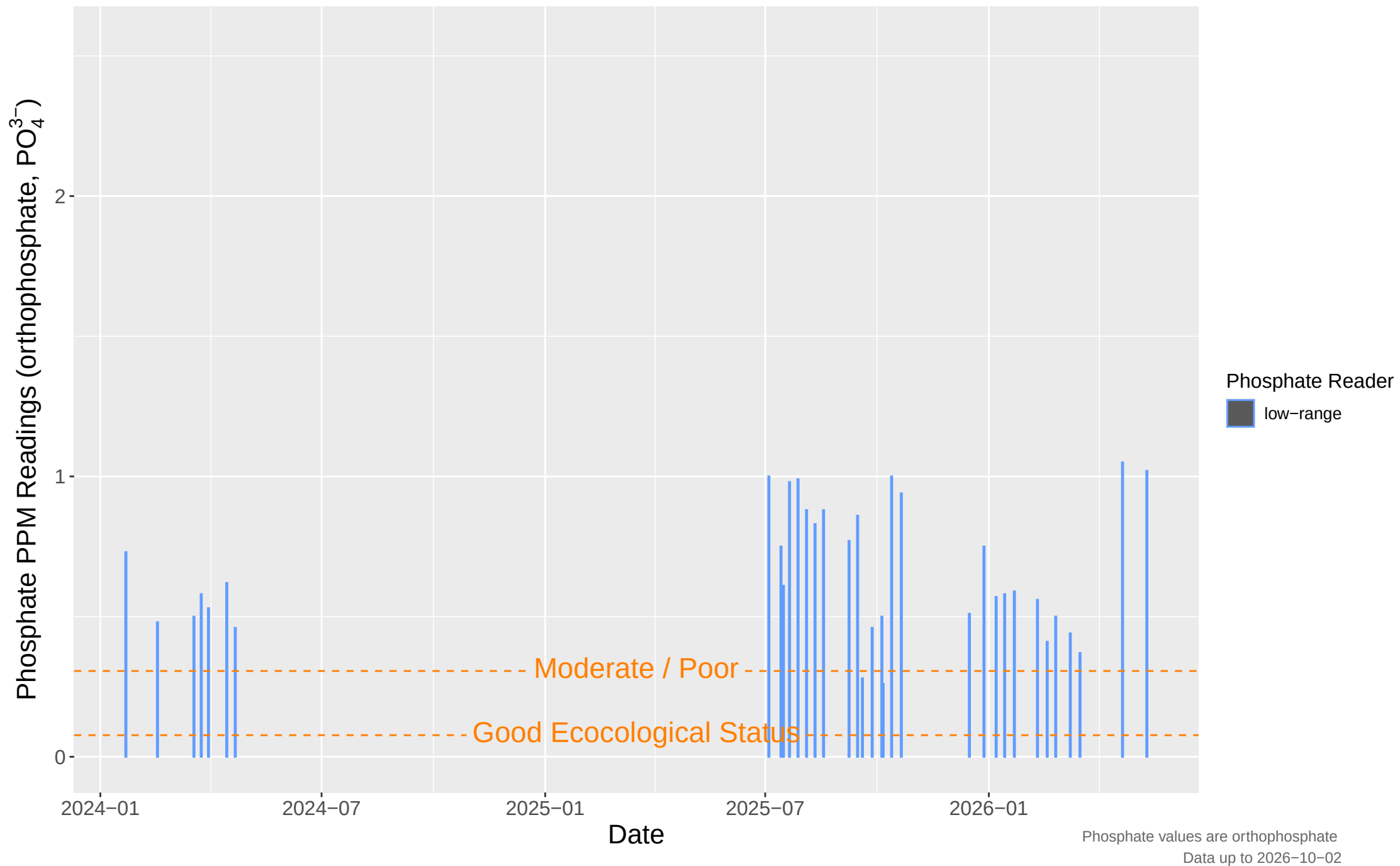
Site: Avon River – Pershore – Pershore Bridges

Start Date: 2024-01-22 | Most Recent: 2026-05-11 | Total Samples: 35 | Distinct Volunteers: 5

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 23-24	2		0.48	0.60	0.73		5	7.5	10		533	729	925		10.9	11.7	12.5
Spring 24	5		0.46	0.53	0.62		5	5.0	10		520	770	877		12.0	13.2	14.1
Summer 25	8		0.61	0.88	1.00		2	10.0	20		113	951	1170		19.2	21.2	23.5
Autumn 25	8		0.26	0.64	1.00		2	7.5	20		305	1065	8600		13.2	15.5	18.3
Winter 25-26	8		0.41	0.56	0.75		5	7.5	10		109	543	943		6.5	9.1	17.6
Spring 26	4		0.37	0.73	1.05		2	5.0	5		708	904	1030		10.4	12.0	15.2

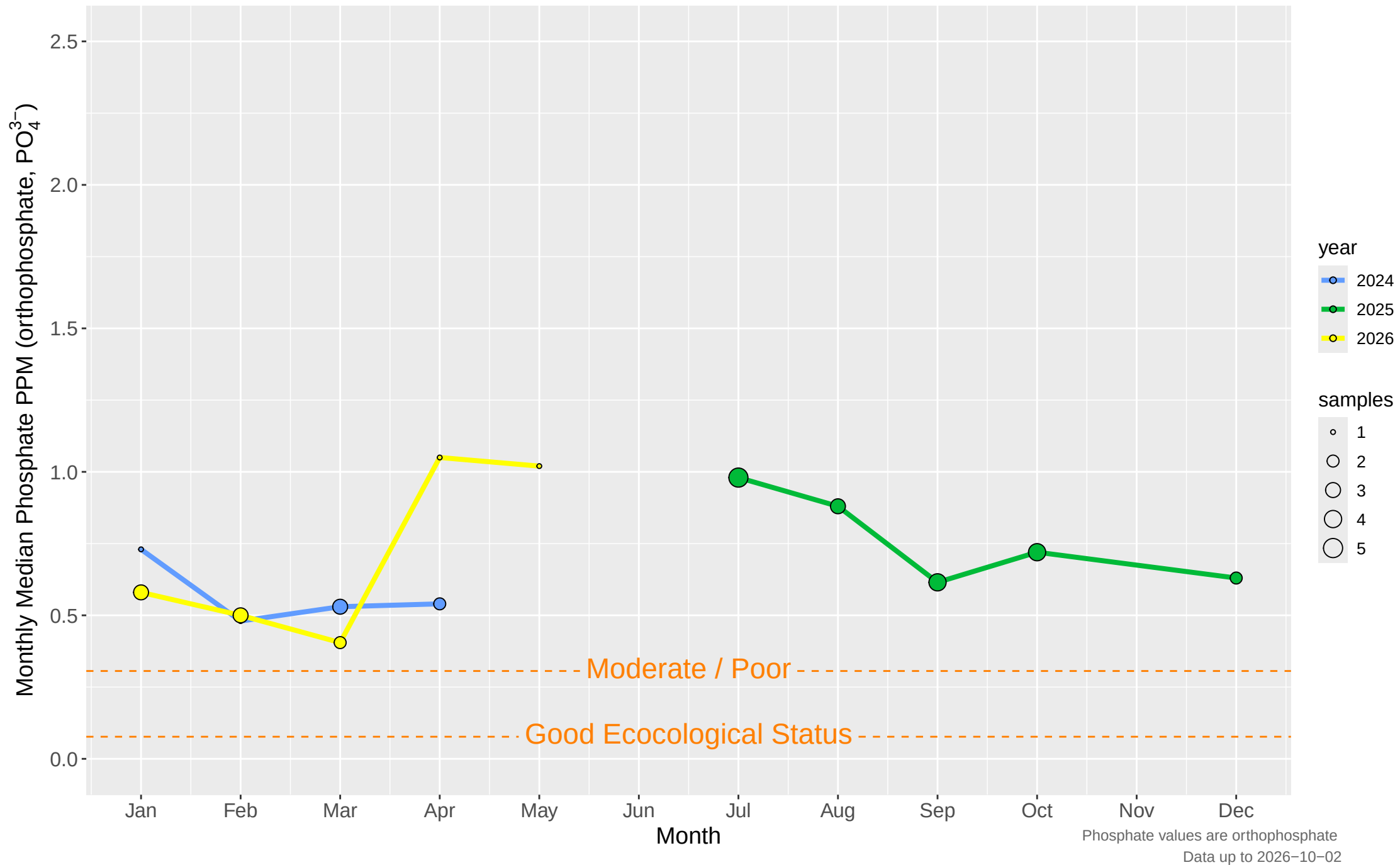
SafeAvon Phosphates – Individual Readings

Avon River – Pershore – Pershore Bridges



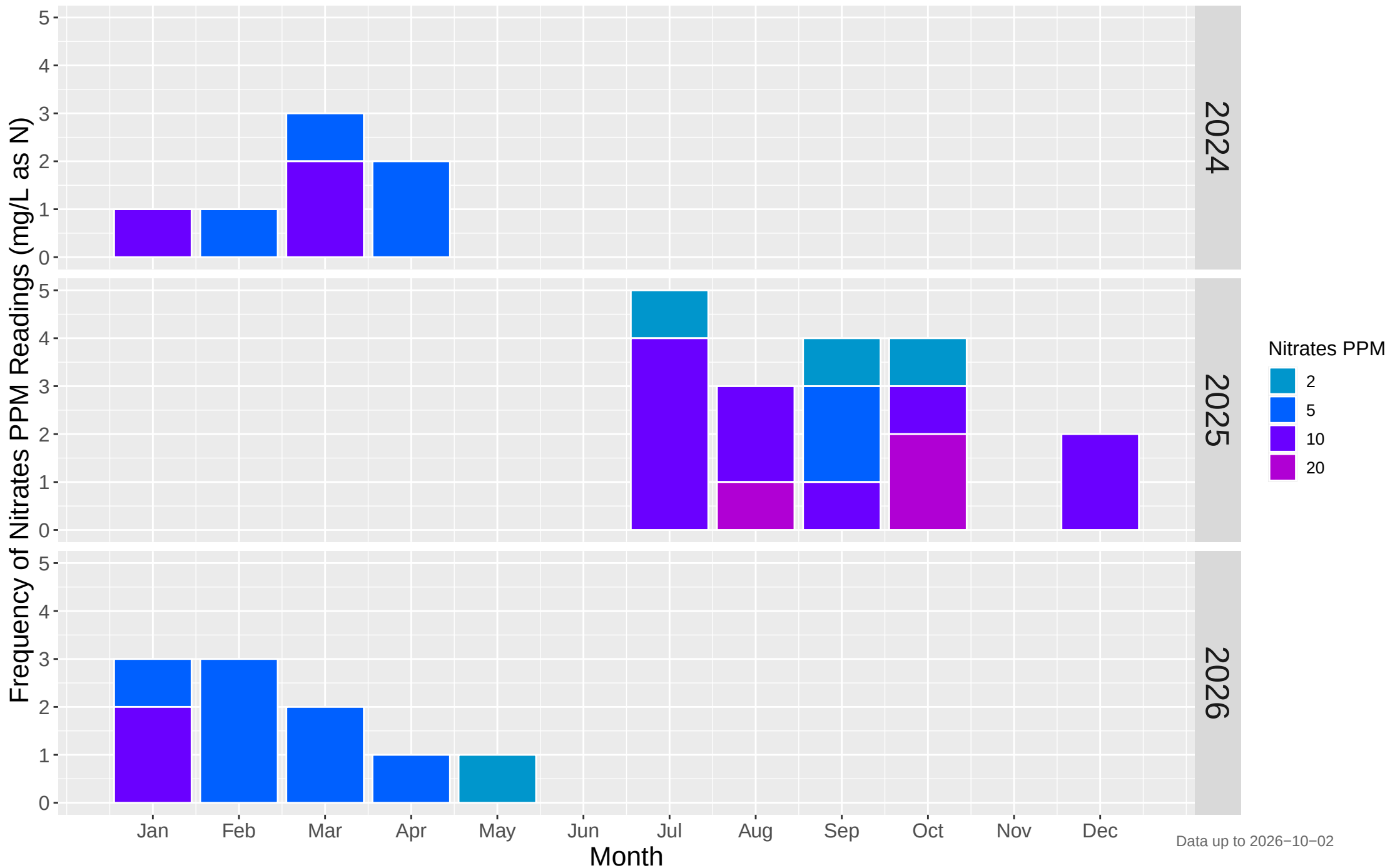
SafeAvon Phosphates – By Month

Avon River – Pershore – Pershore Bridges



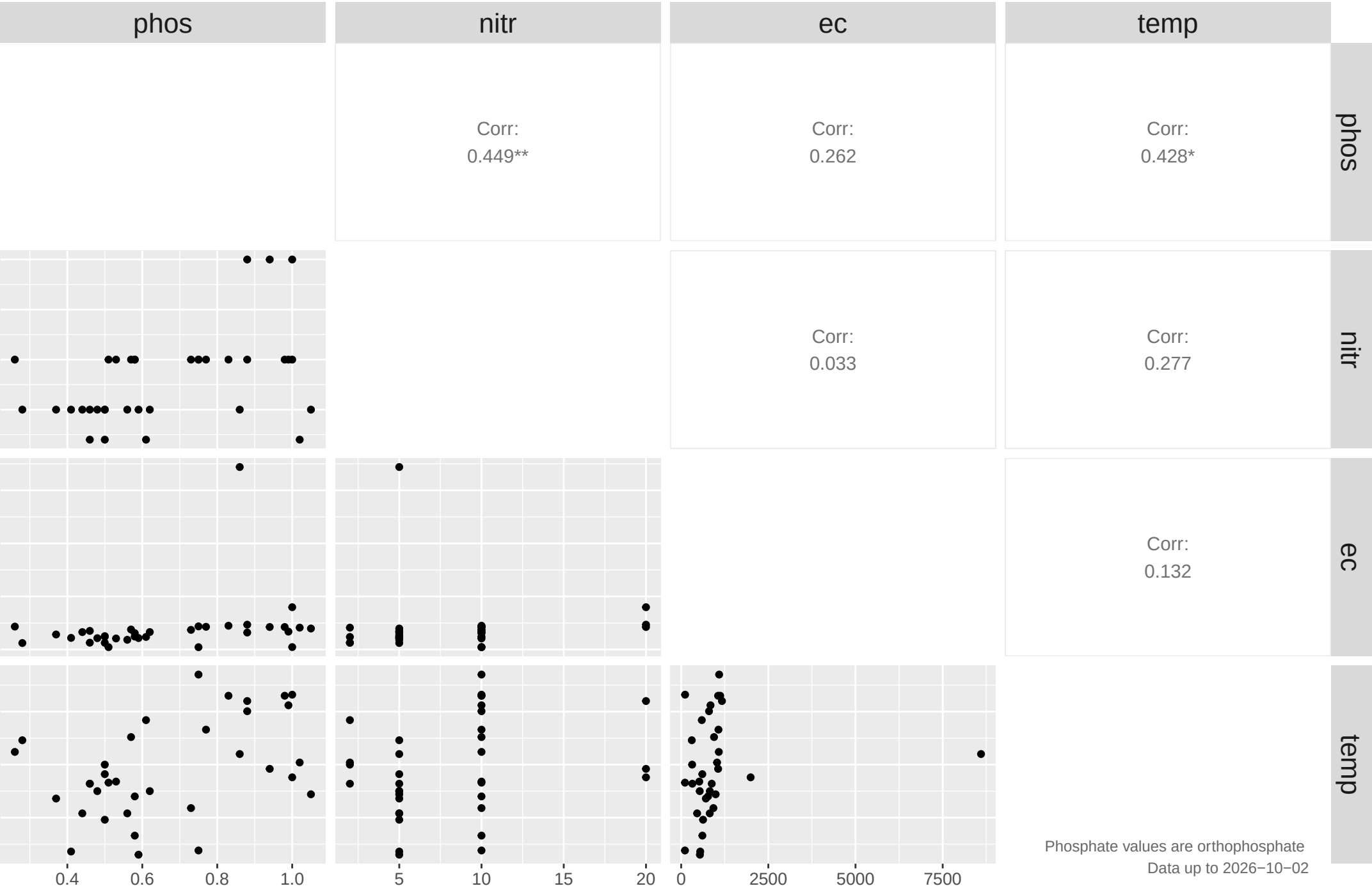
SafeAvon Nitrates By Month

Avon River – Pershore – Pershore Bridges



Pairwise Testing Variables Relationships

Avon River – Pershore – Pershore Bridges



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