

SafeAvon Nutrient Testing Report: Wyre Piddle

SafeAvon Sites By Waterway

Avon River

- . Wyre Piddle – Smiths Meadows

Piddle Brook

- . Wyre Piddle – A44 Bridge
- . Wyre Piddle – Bridge

SafeAvon Locations in Wyre Piddle

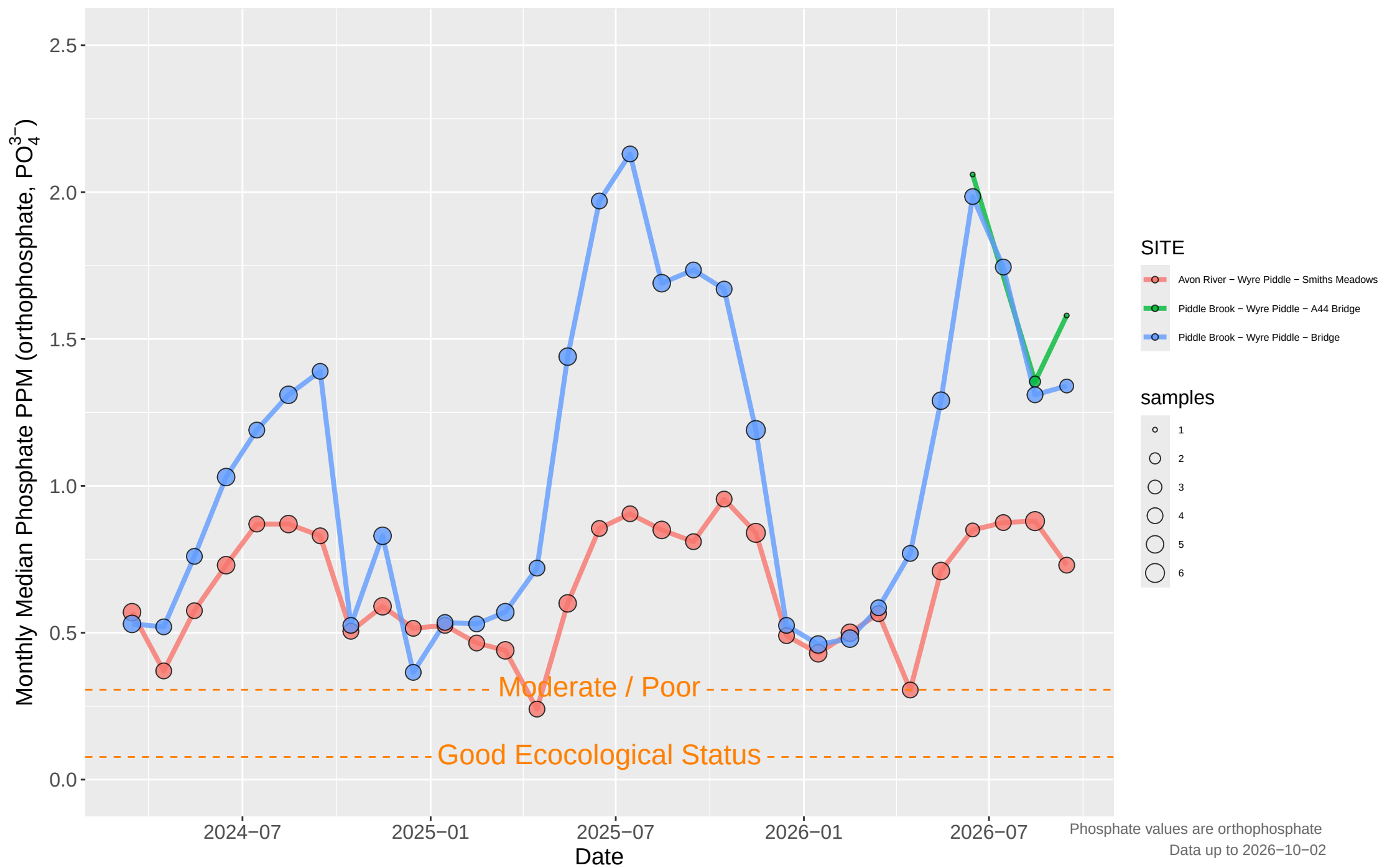


Summary for sites in Wyre Piddle

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Avon River – Wyre Piddle – Smiths Meadows	2024-03-02	2026-09-26	137	3	0.630	10
Piddle Brook – Wyre Piddle – Bridge	2024-03-02	2026-09-26	135	3	0.900	5
Piddle Brook – Wyre Piddle – A44 Bridge	2026-06-15	2026-09-05	4	2	1.535	5

SafeAvon Phosphates – By Month

Wyre Piddle



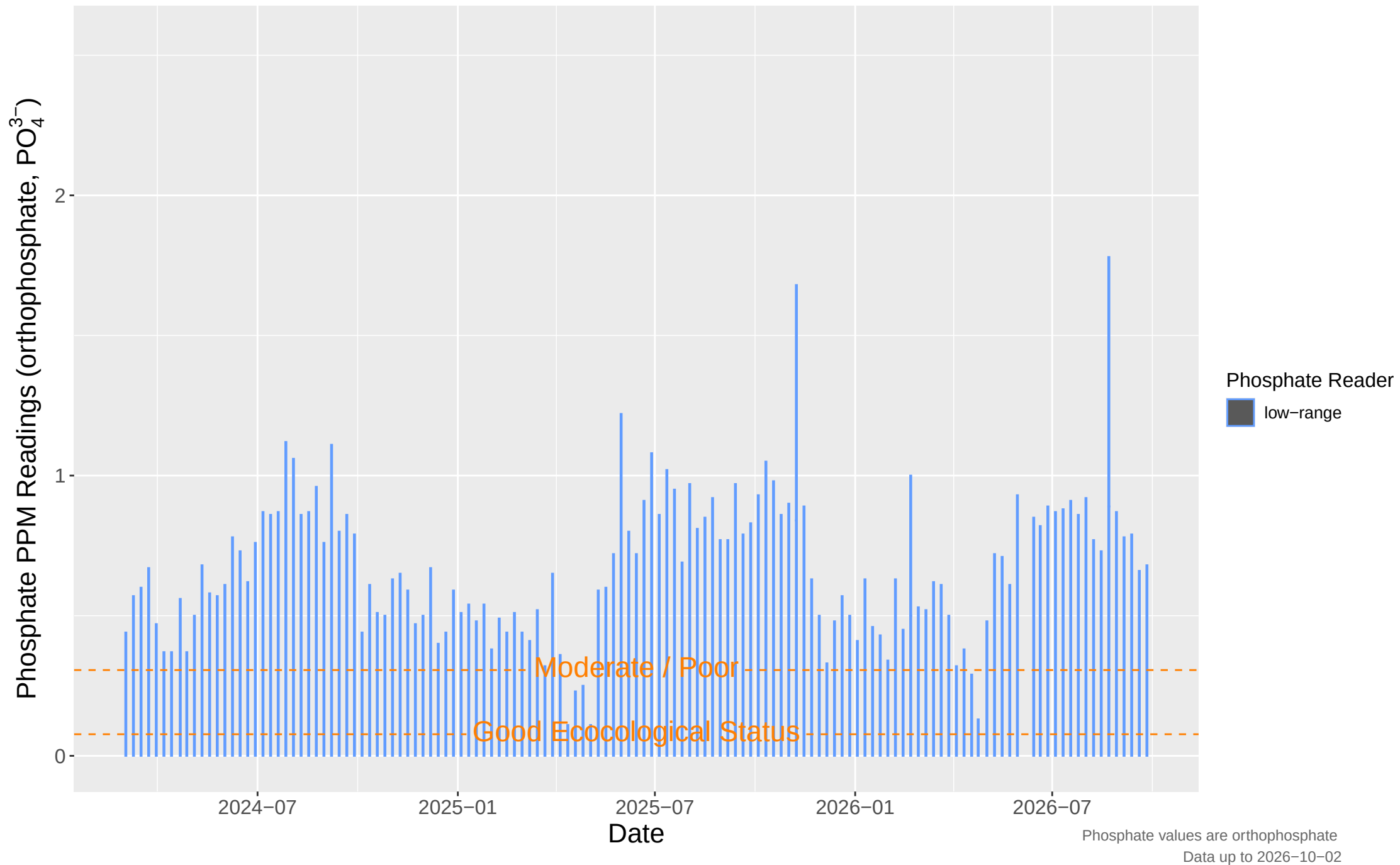
Site: Avon River – Wyre Piddle – Smiths Meadows

Start Date: 2024-03-02 | Most Recent: 2026-09-26 | Total Samples: 137 | Distinct Volunteers: 3

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	13		0.37	0.56	0.68		5	5.0	10		313	723	929		7.3	11.6	18.0
Summer 24	14		0.61	0.86	1.12		5	10.0	20		835	1010	1120		13.8	19.1	22.6
Autumn 24	13		0.44	0.61	1.11		5	5.0	20		378	706	1060		6.5	12.3	18.2
Winter 24–25	12		0.38	0.50	0.67		5	5.0	10		511	788	865		2.6	6.8	9.2
Spring 25	14		0.11	0.42	1.22		5	10.0	20		697	958	1120		7.6	13.2	18.5
Summer 25	13		0.69	0.86	1.08		10	20.0	20		884	1090	1180		17.1	20.4	23.7
Autumn 25	14		0.50	0.85	1.05		10	10.0	20		114	992	1060		7.1	13.3	17.6
Winter 25–26	14		0.33	0.49	0.63		2	7.5	10		436	629	864		5.4	8.2	10.5
Spring 26	13		0.13	0.52	0.93		5	10.0	20		681	936	1070		10.0	12.7	21.7
Summer 26	13		0.73	0.87	0.92		2	20.0	20		819	1120	1220		17.1	21.4	25.7
Autumn 26	4		0.66	0.73	0.79		10	10.0	10		827	996	1050		17.3	17.8	18.3

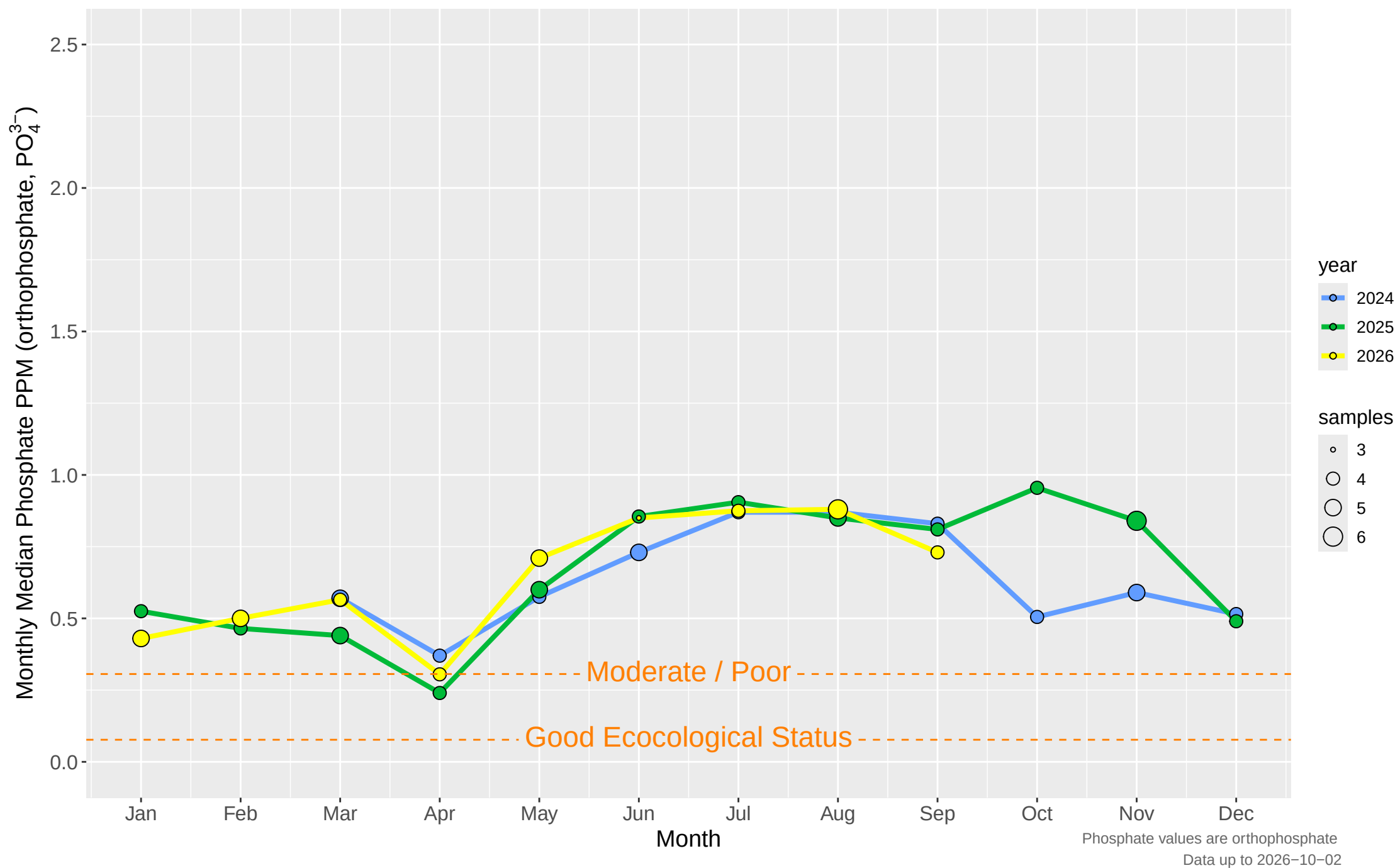
SafeAvon Phosphates – Individual Readings

Avon River – Wyre Piddle – Smiths Meadows



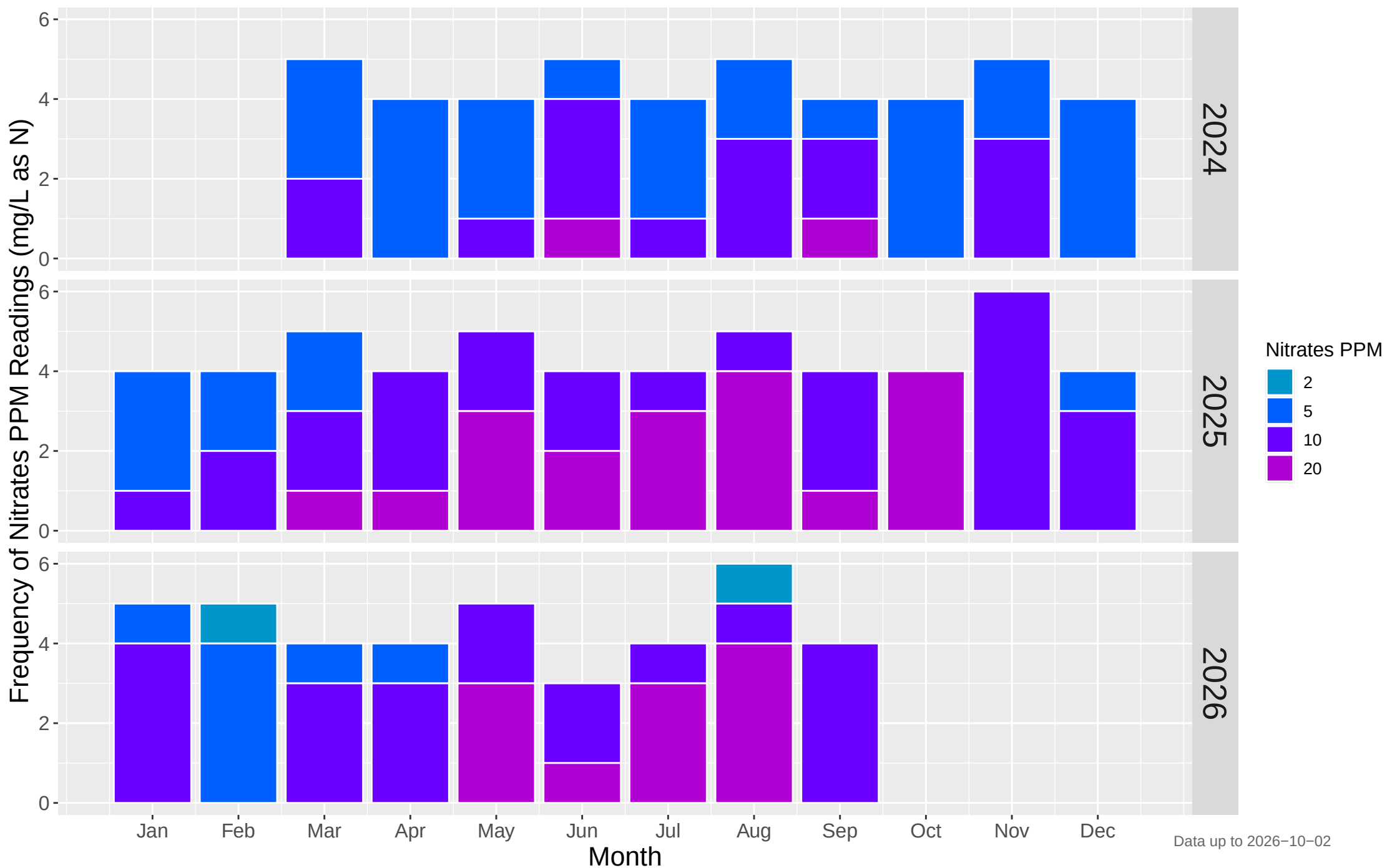
SafeAvon Phosphates – By Month

Avon River – Wyre Piddle – Smiths Meadows



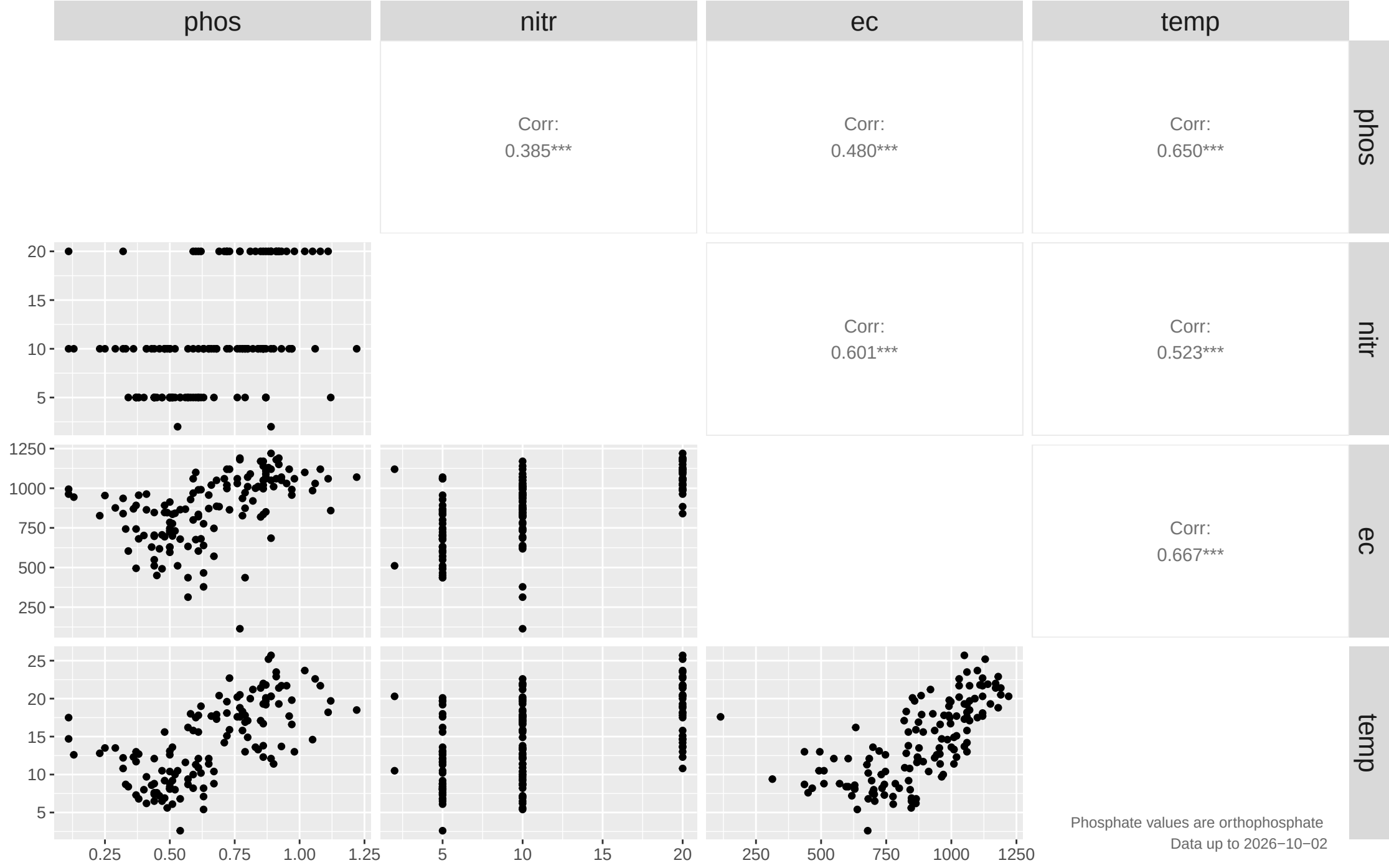
SafeAvon Nitrates By Month

Avon River – Wyre Piddle – Smiths Meadows



Pairwise Testing Variables Relationships

Avon River – Wyre Piddle – Smiths Meadows



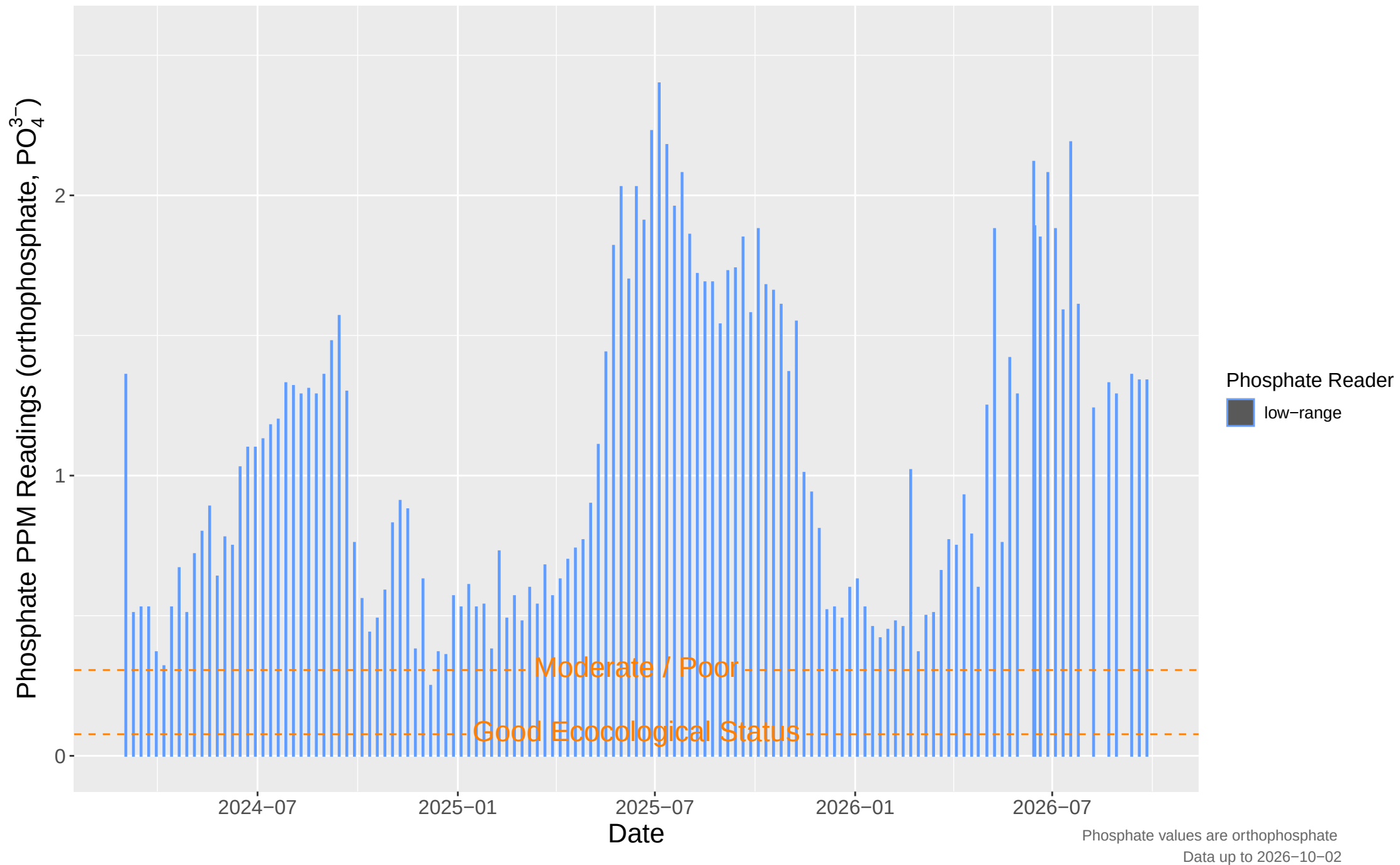
Site: Piddle Brook – Wyre Piddle – Bridge

Start Date: 2024-03-02 | Most Recent: 2026-09-26 | Total Samples: 135 | Distinct Volunteers: 3

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	13		0.32	0.53	1.36		2	5.0	10		572	1030	1420		5.9	10.8	16.2
Summer 24	14		0.75	1.19	1.36		5	10.0	10		836	1655	1870		13.1	15.8	19.1
Autumn 24	13		0.38	0.76	1.57		5	5.0	20		665	1180	1870		7.6	11.5	17.1
Winter 24–25	12		0.25	0.53	0.73		5	5.0	5		710	1040	1190		2.3	6.6	9.7
Spring 25	14		0.48	0.72	2.03		5	7.5	10		998	1485	1790		5.8	11.3	17.4
Summer 25	13		1.54	1.91	2.40		10	10.0	10		992	1860	2020		14.1	18.4	21.4
Autumn 25	14		0.81	1.60	1.88		2	5.0	10		836	1685	1940		5.4	13.0	16.6
Winter 25–26	14		0.37	0.50	0.63		2	5.0	10		312	678	1330		4.2	8.3	10.1
Spring 26	13		0.50	0.77	1.88		2	5.0	10		674	1550	1720		8.6	10.9	18.3
Summer 26	12		1.24	1.73	2.19		5	7.5	10		1520	1880	2060		15.3	17.9	23.0
Autumn 26	3		1.34	1.34	1.36		5	5.0	5		1830	1850	1930		14.6	15.7	16.0

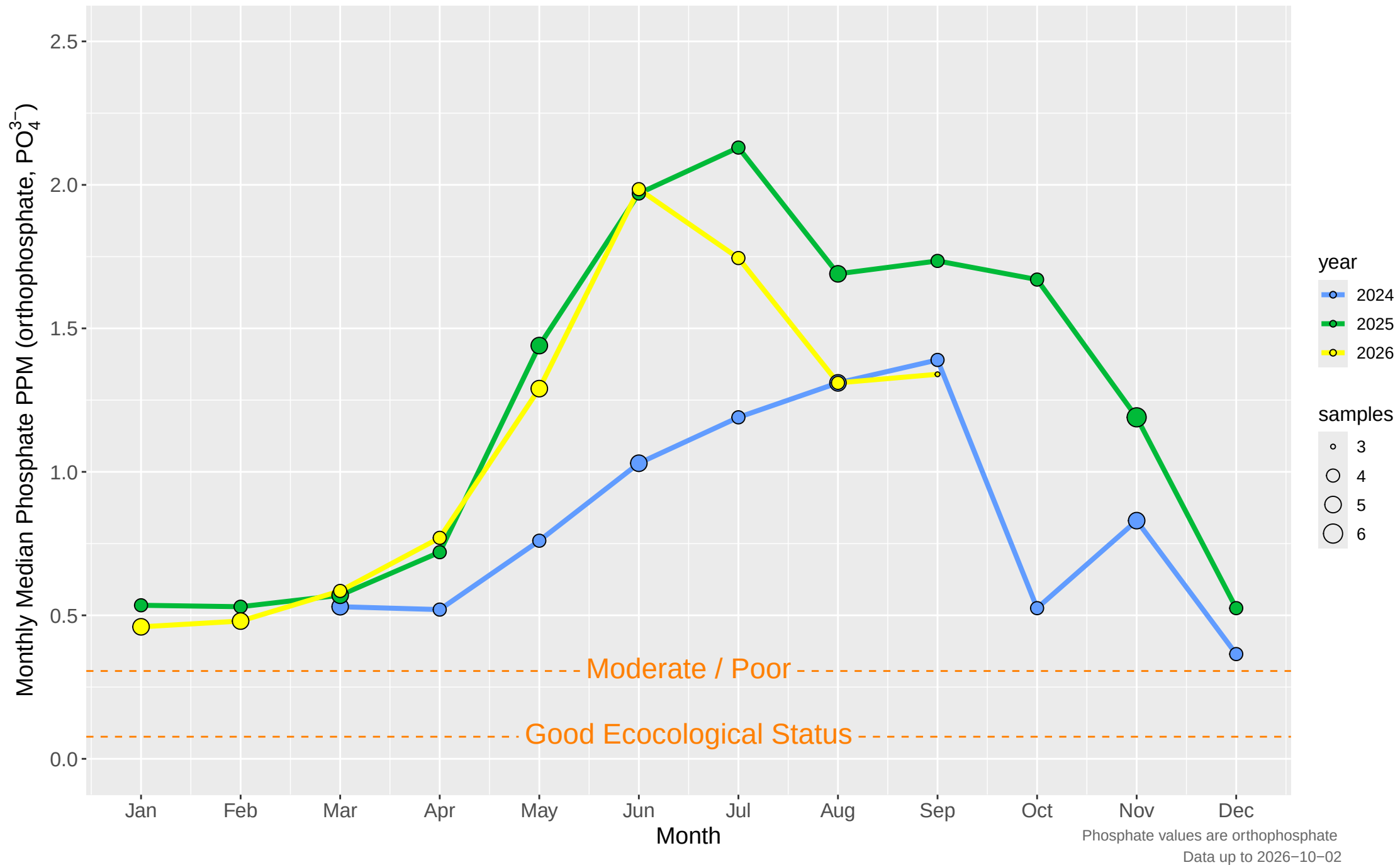
SafeAvon Phosphates – Individual Readings

Piddle Brook – Wyre Piddle – Bridge



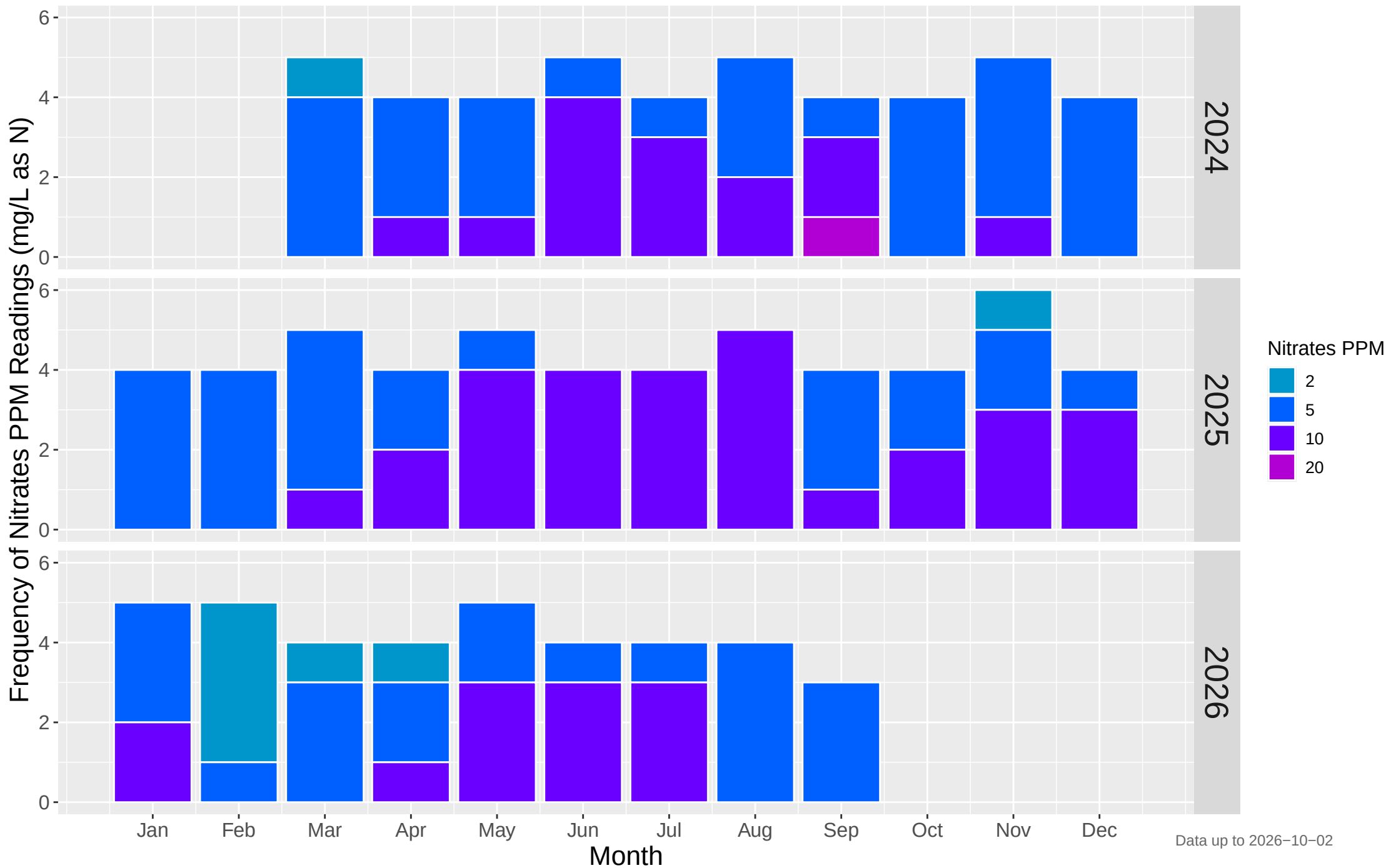
SafeAvon Phosphates – By Month

Piddle Brook – Wyre Piddle – Bridge



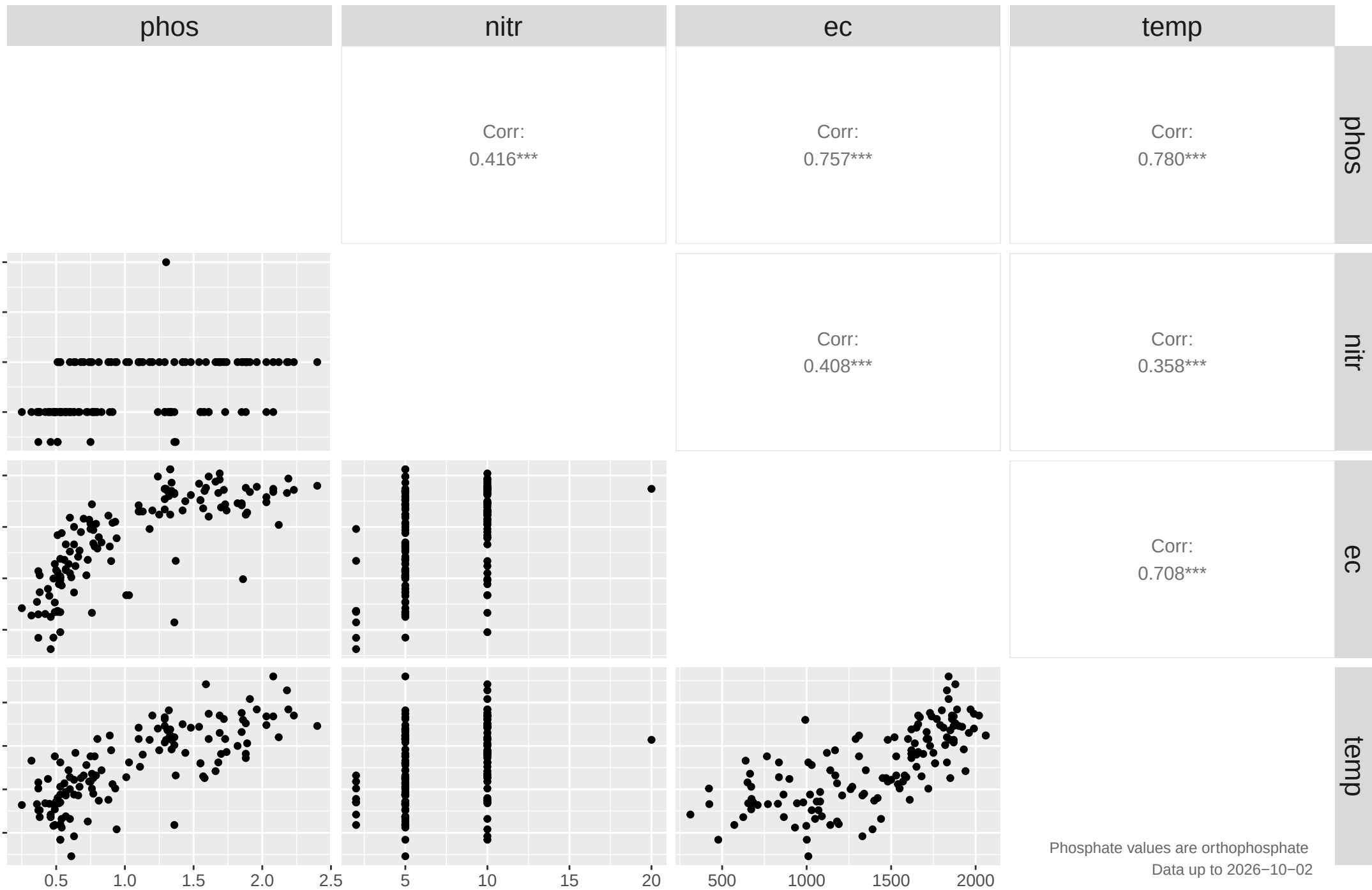
SafeAvon Nitrates By Month

Piddle Brook – Wyre Piddle – Bridge



Pairwise Testing Variables Relationships

Piddle Brook – Wyre Piddle – Bridge



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