

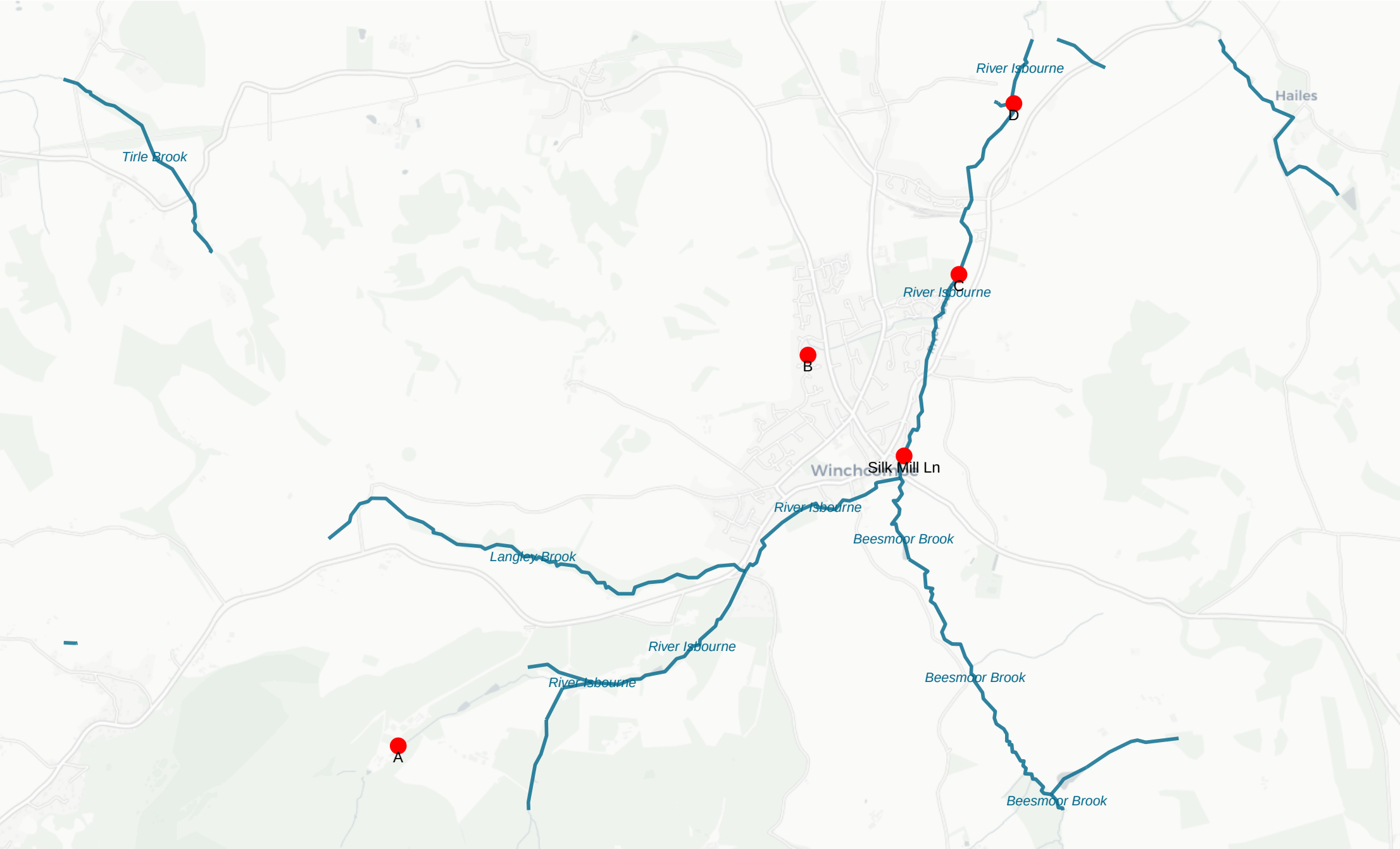
SafeAvon Nutrient Testing Report: Winchcombe

SafeAvon Sites By Waterway

Isbourne River

- . Winchcombe – A
- . Winchcombe – B
- . Winchcombe – C
- . Winchcombe – D
- . Winchcombe – Silk Mill Ln

SafeAvon Locations in Winchcombe

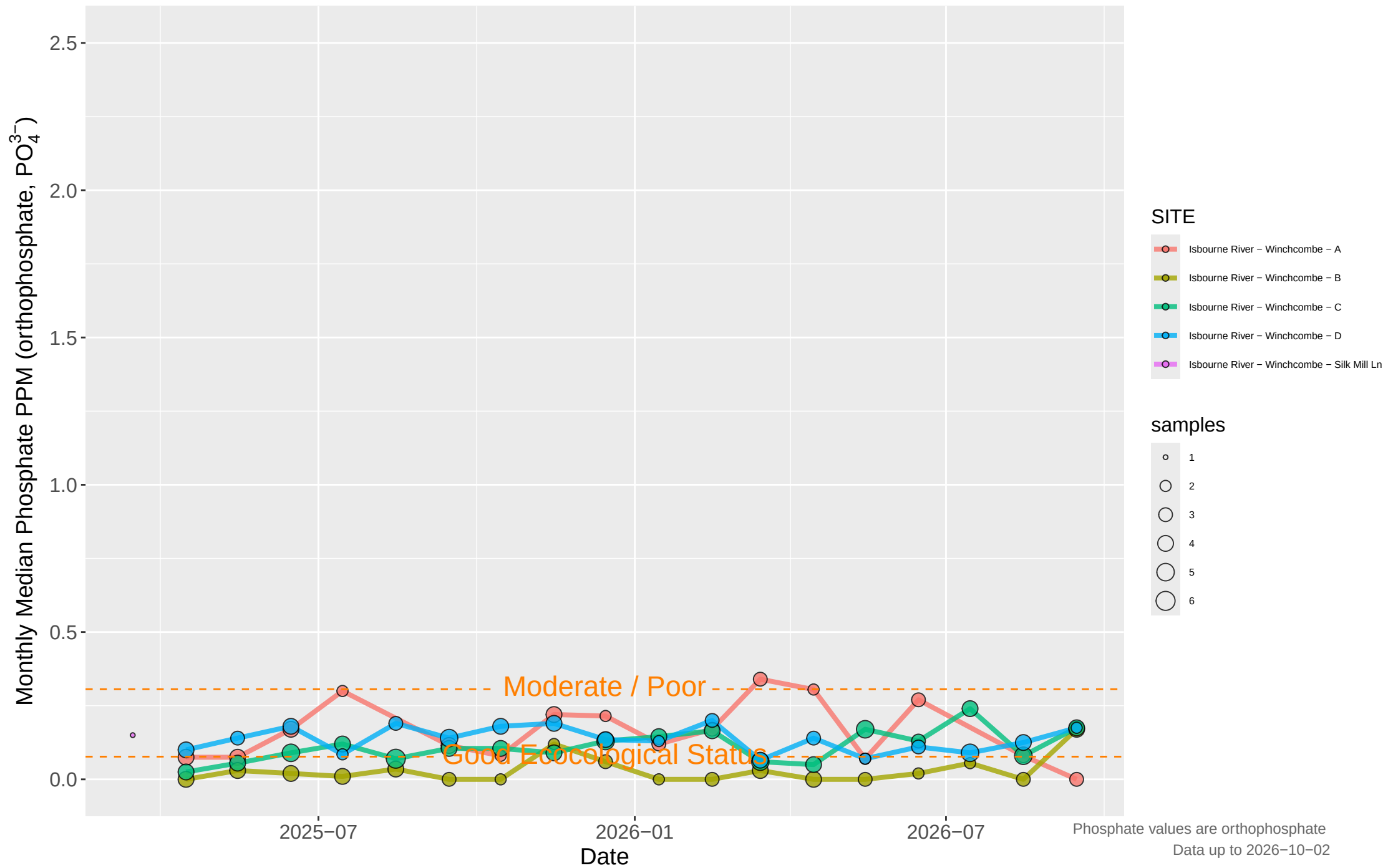


Summary for sites in Winchcombe

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Isbourne River – Winchcombe – C	2025-04-06	2026-09-29	78	5	0.10	5
Isbourne River – Winchcombe – D	2025-04-06	2026-09-29	61	5	0.13	2
Isbourne River – Winchcombe – B	2025-04-06	2026-09-22	57	5	0.00	2
Isbourne River – Winchcombe – A	2025-04-06	2026-09-20	48	4	0.12	2
Isbourne River – Winchcombe – Silk Mill Ln	2025-03-02	2025-03-02	1	1	0.15	5

SafeAvon Phosphates – By Month

Winchcombe



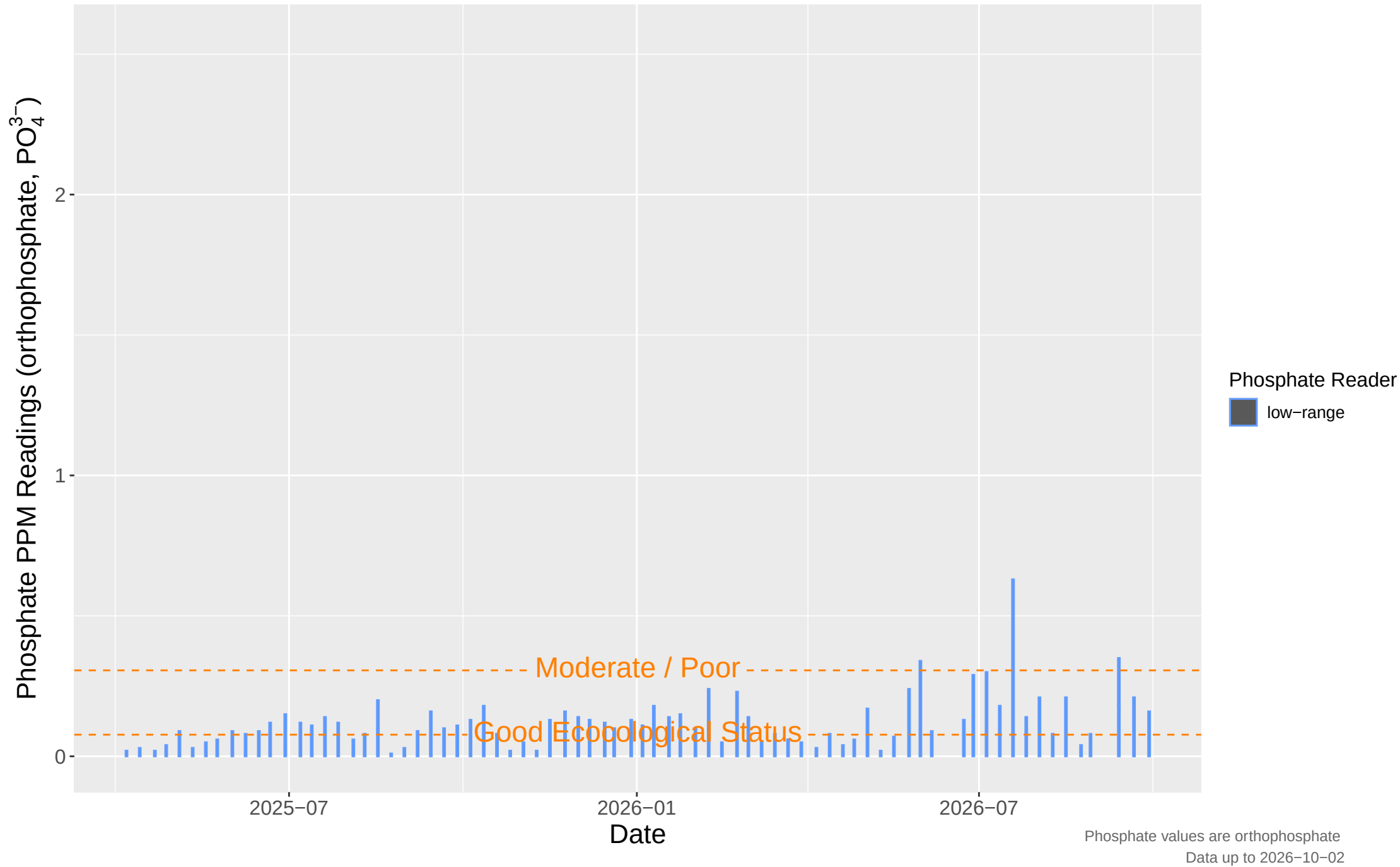
Site: Isbourne River – Winchcombe – C

Start Date: 2025-04-06 | Most Recent: 2026-09-29 | Total Samples: 78 | 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
Spring 25	8		0.02	0.04	0.09		5.0	5	5		497	522	542		12.2	13.6	17.0
Summer 25	15		0.01	0.10	0.15		2.0	5	5		449	559	641		14.8	17.1	21.5
Autumn 25	12		0.02	0.11	0.18		2.0	5	10		541	645	699		9.5	13.1	17.8
Winter 25-26	13		0.05	0.13	0.24		2.0	5	5		395	488	557		4.0	9.4	12.4
Spring 26	14		0.02	0.06	0.34		2.0	2	5		454	495	535		8.5	11.4	20.1
Summer 26	12		0.04	0.16	0.63		0.5	2	2		452	534	611		14.8	18.0	20.0
Autumn 26	4		0.16	0.17	0.21		2.0	2	2		587	614	630		13.8	17.8	19.0

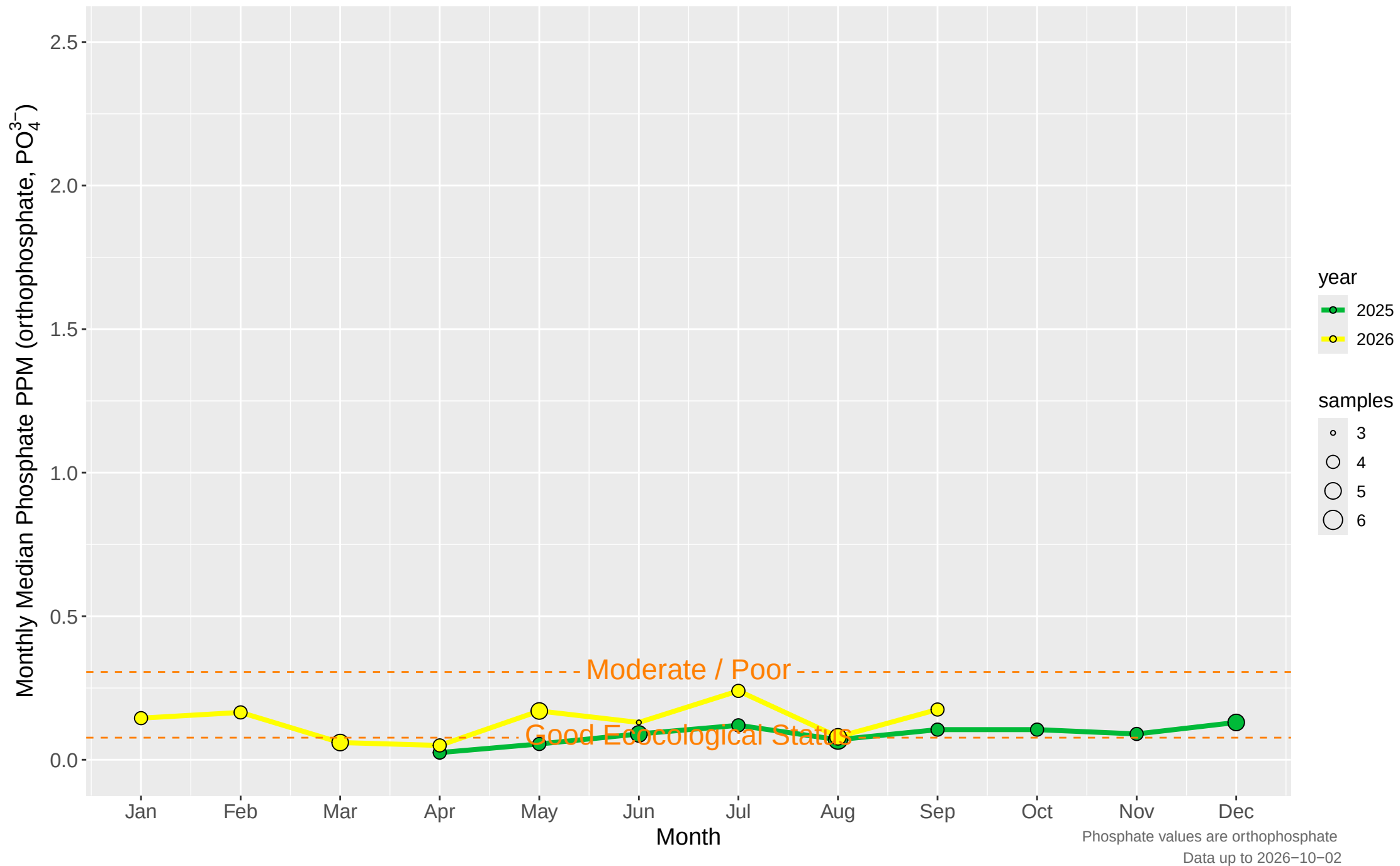
SafeAvon Phosphates – Individual Readings

Isbourne River – Winchcombe – C



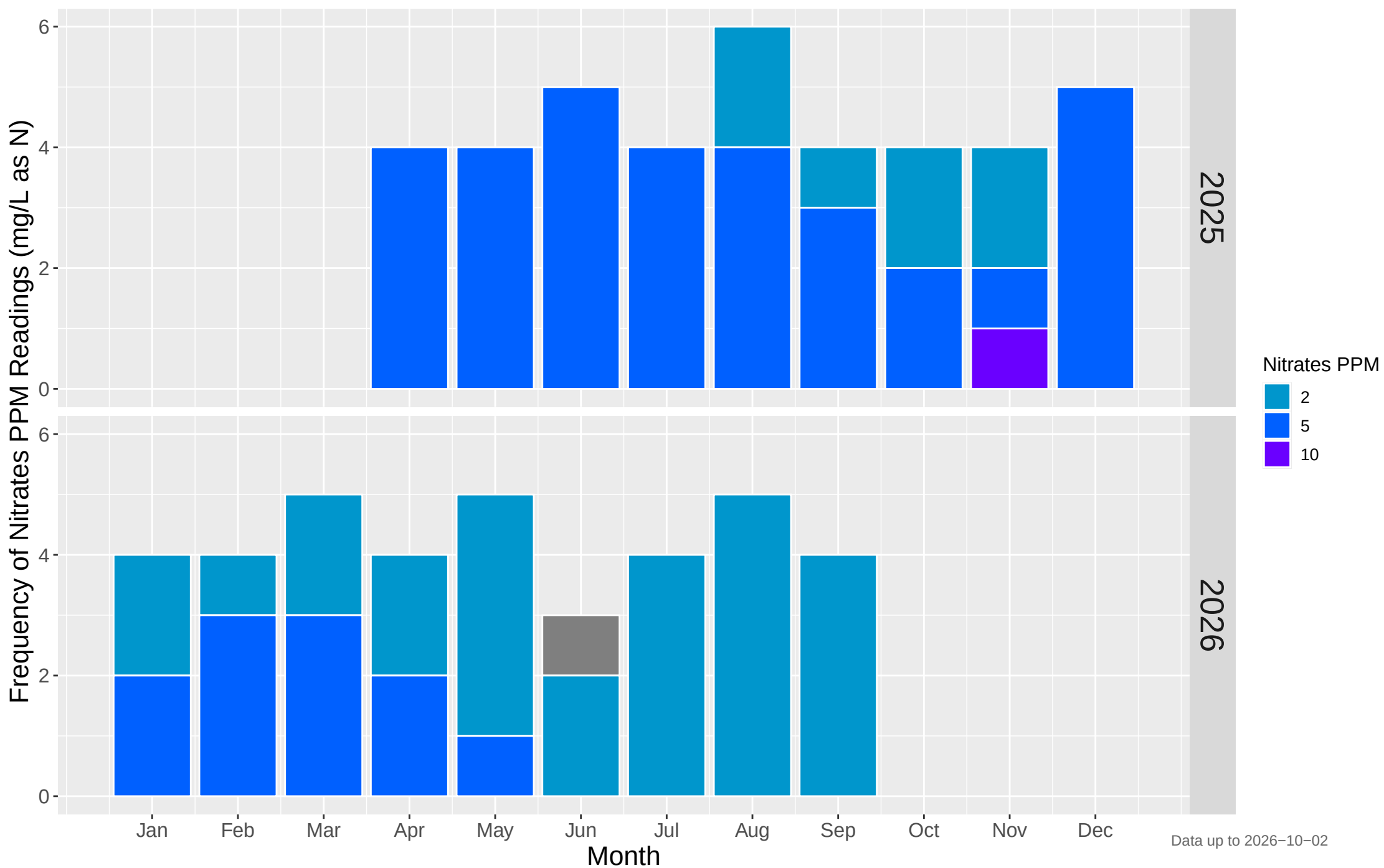
SafeAvon Phosphates – By Month

Isbourne River – Winchcombe – C



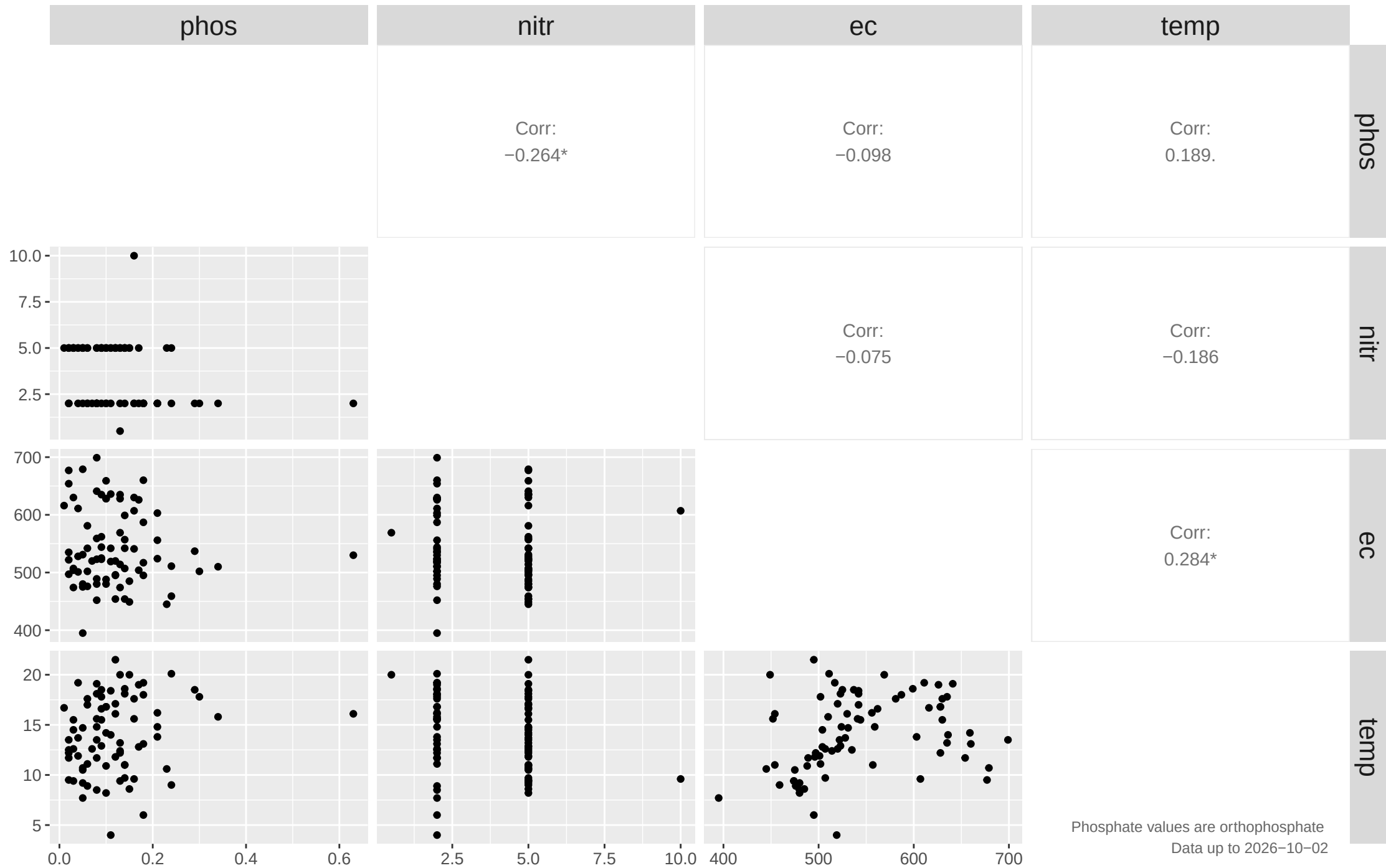
SafeAvon Nitrates By Month

Isbourne River – Winchcombe – C



Pairwise Testing Variables Relationships

Isbourne River – Winchcombe – C



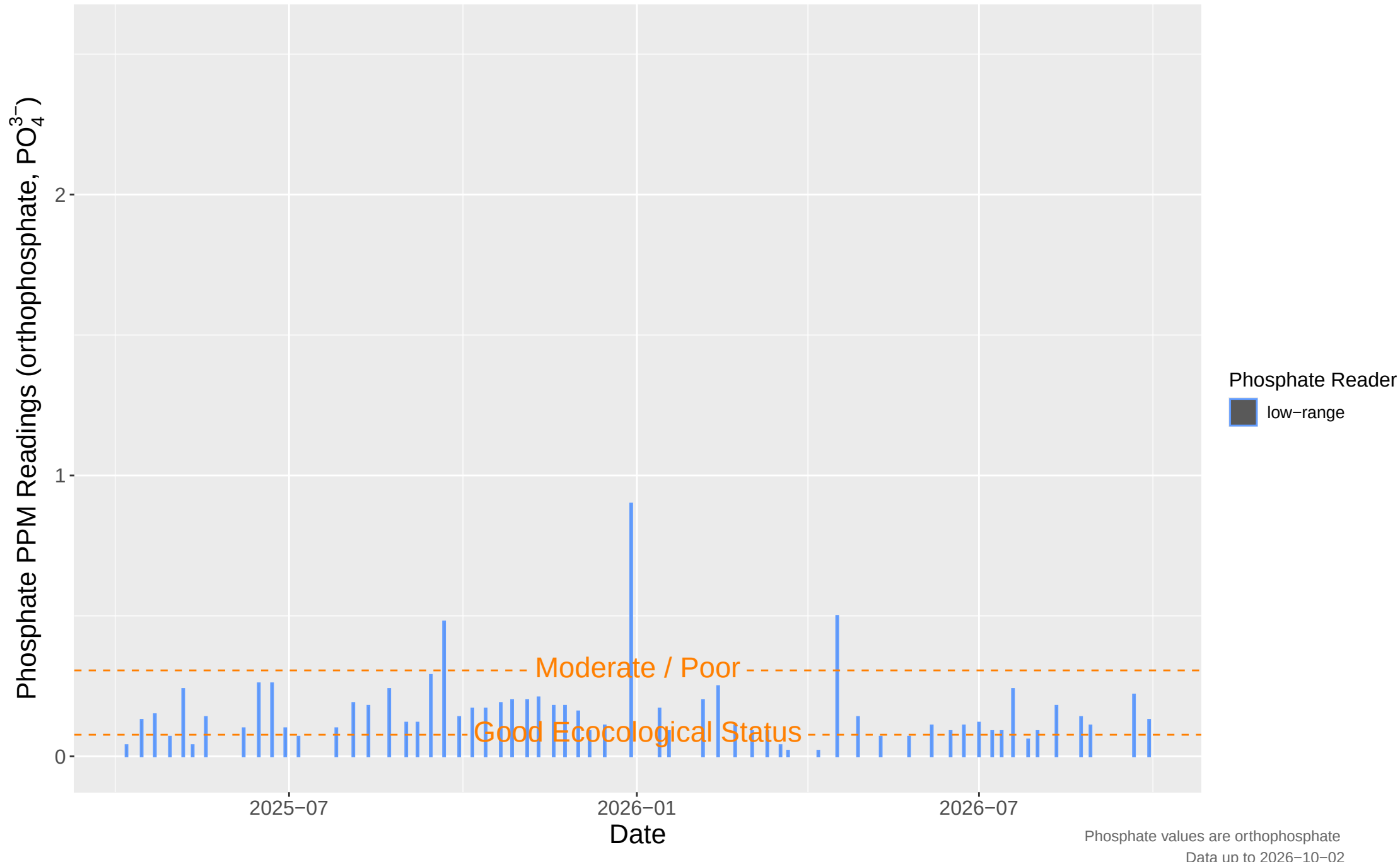
Site: Isbourne River – Winchcombe – D

Start Date: 2025-04-06 | Most Recent: 2026-09-29 | Total Samples: 61 | 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
Spring 25	7		0.04	0.13	0.24		2.0	5	5		544	548	572		12.8	15.3	19.9
Summer 25	9		0.07	0.18	0.26		2.0	5	5		457	573	706		15.5	18.8	22.8
Autumn 25	13		0.12	0.18	0.48		2.0	2	5		501	677	715		10.4	15.1	17.4
Winter 25–26	9		0.09	0.16	0.90		2.0	2	5		382	463	632		8.7	10.9	12.4
Spring 26	9		0.02	0.07	0.50		2.0	2	5		345	496	550		11.1	13.5	18.3
Summer 26	12		0.06	0.11	0.24		0.5	2	2		462	580	678		16.0	18.8	21.9
Autumn 26	2		0.13	0.17	0.22		2.0	2	2		675	686	696		13.8	16.1	18.5

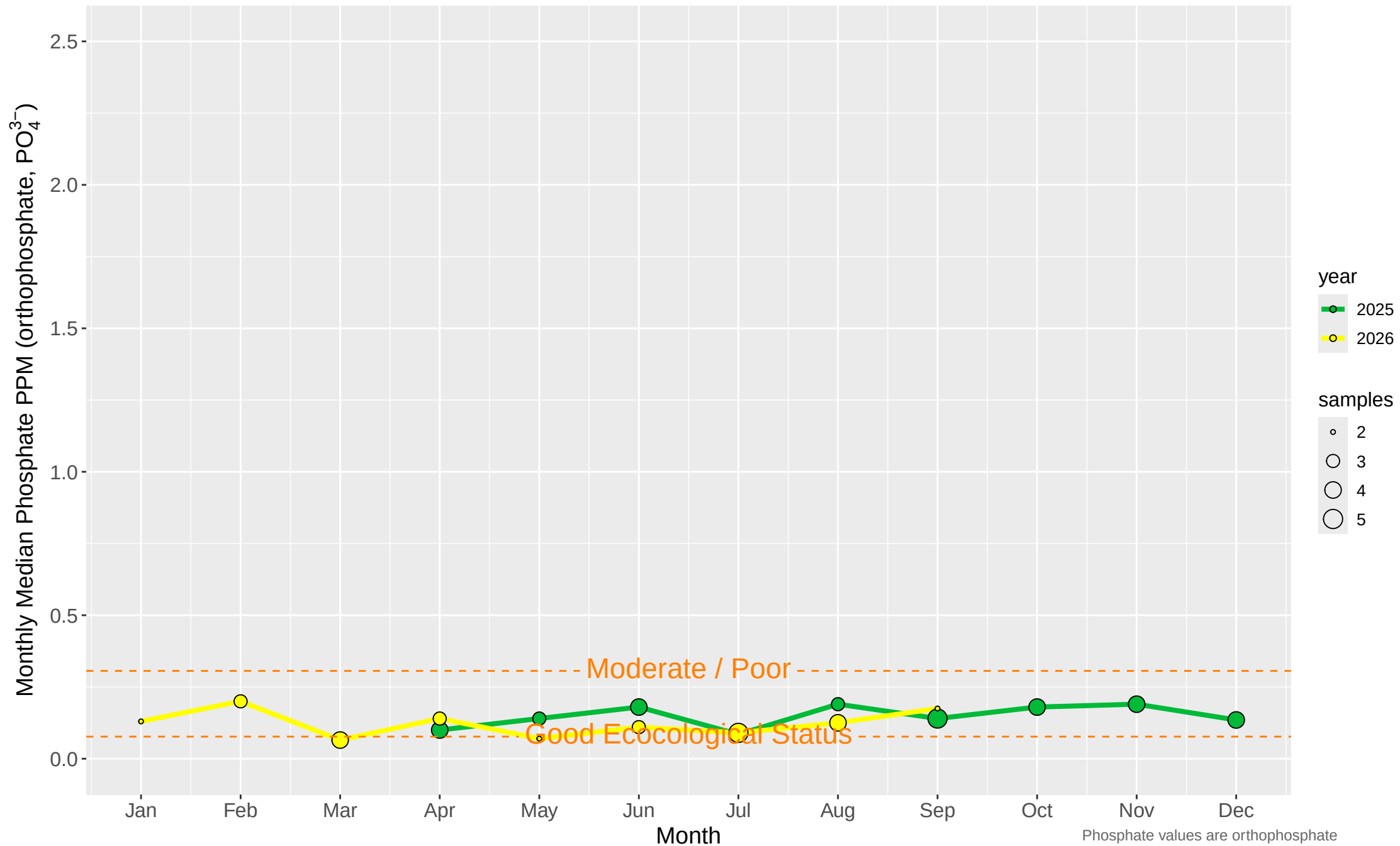
SafeAvon Phosphates – Individual Readings

Isbourne River – Winchcombe – D



SafeAvon Phosphates – By Month

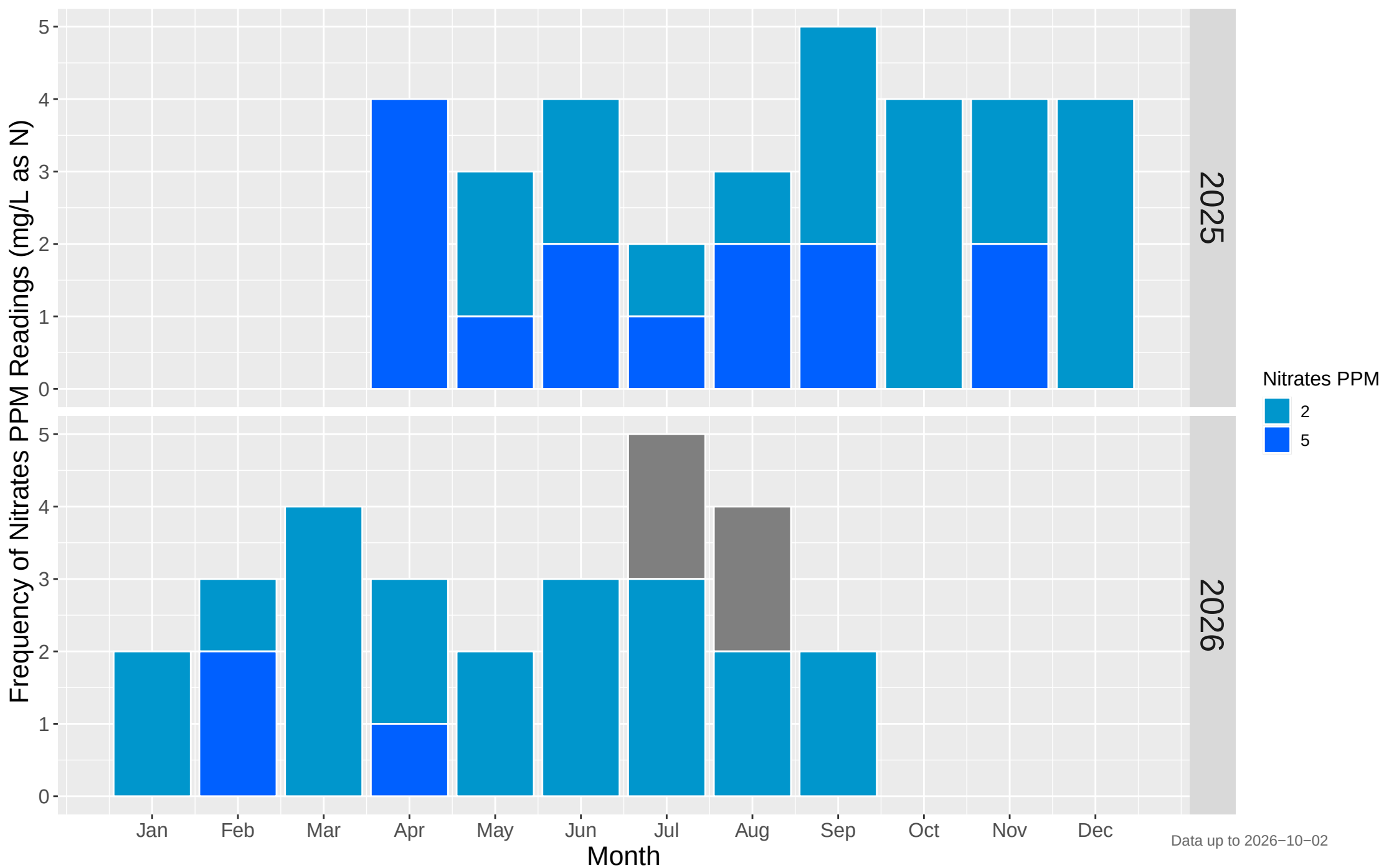
Isbourne River – Winchcombe – D



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

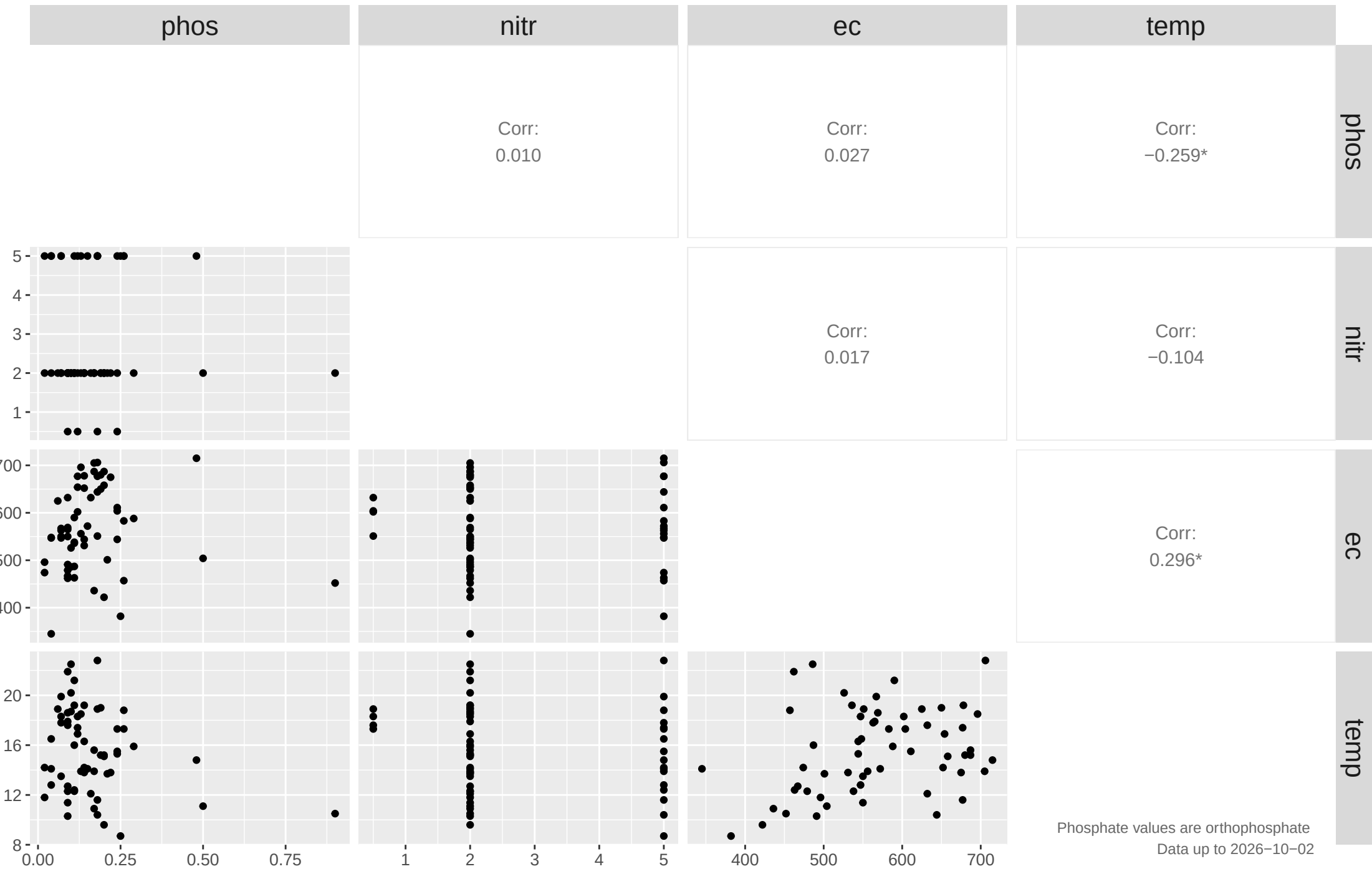
SafeAvon Nitrates By Month

Isbourne River – Winchcombe – D



Pairwise Testing Variables Relationships

Isbourne River – Winchcombe – D



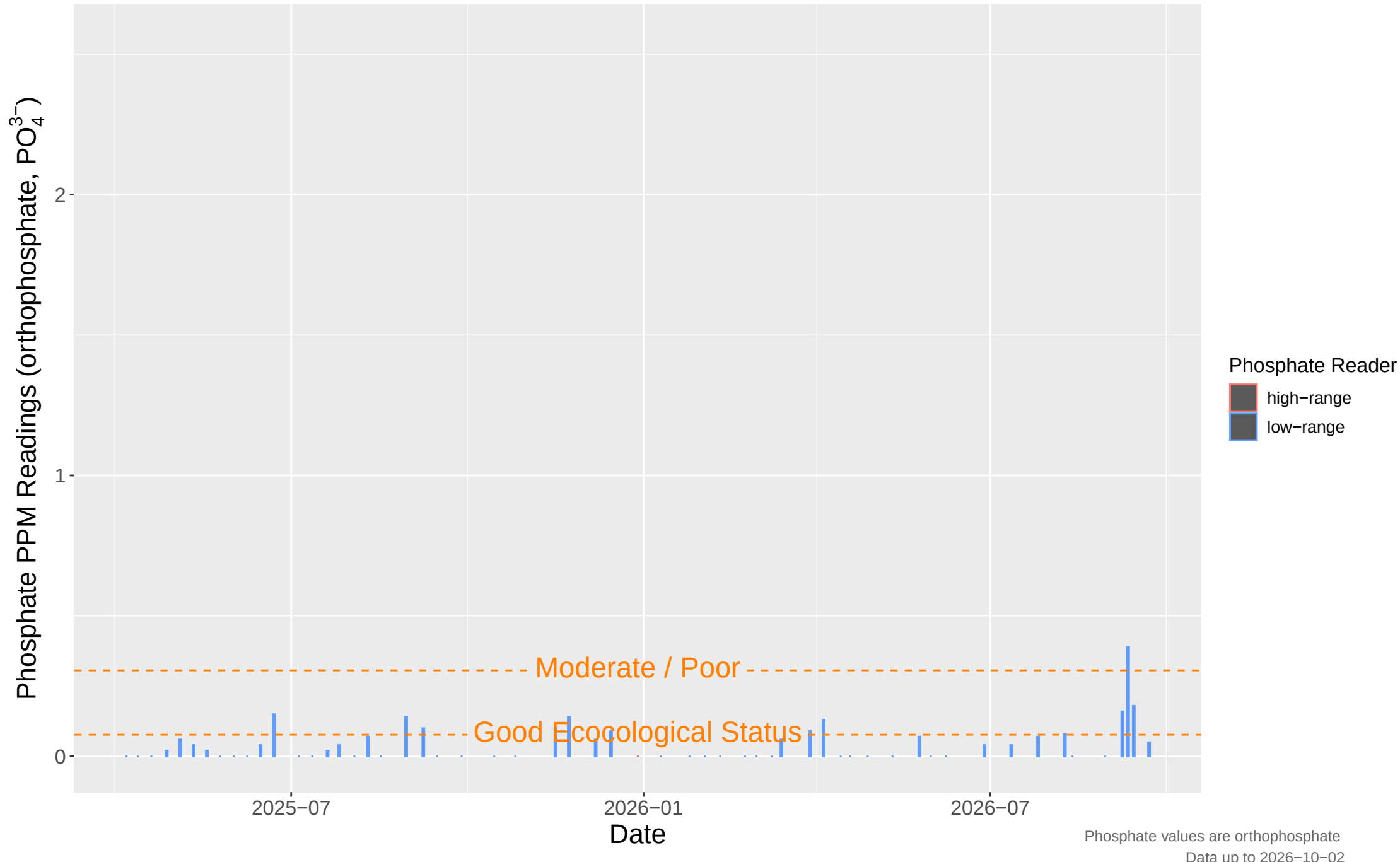
Site: Isbourne River – Winchcombe – B

Start Date: 2025-04-06 | Most Recent: 2026-09-22 | Total Samples: 57 | 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
Spring 25	8		0.00	0.01	0.06		2.0	5	5		427	546	570		12.7	16.4	17.8
Summer 25	12		0.00	0.01	0.15		2.0	2	5		412	584	875		15.2	18.8	23.8
Autumn 25	7		0.00	0.00	0.14		2.0	2	5		104	752	793		10.6	15.4	16.3
Winter 25–26	8		0.00	0.00	0.09		2.0	2	5		432	498	598		6.6	10.5	12.3
Spring 26	11		0.00	0.00	0.13		2.0	5	5		444	468	590		10.6	12.0	18.1
Summer 26	7		0.00	0.04	0.08		0.5	2	2		430	622	744		16.2	19.0	24.5
Autumn 26	4		0.05	0.17	0.39		2.0	2	2		292	690	754		16.4	16.6	18.6

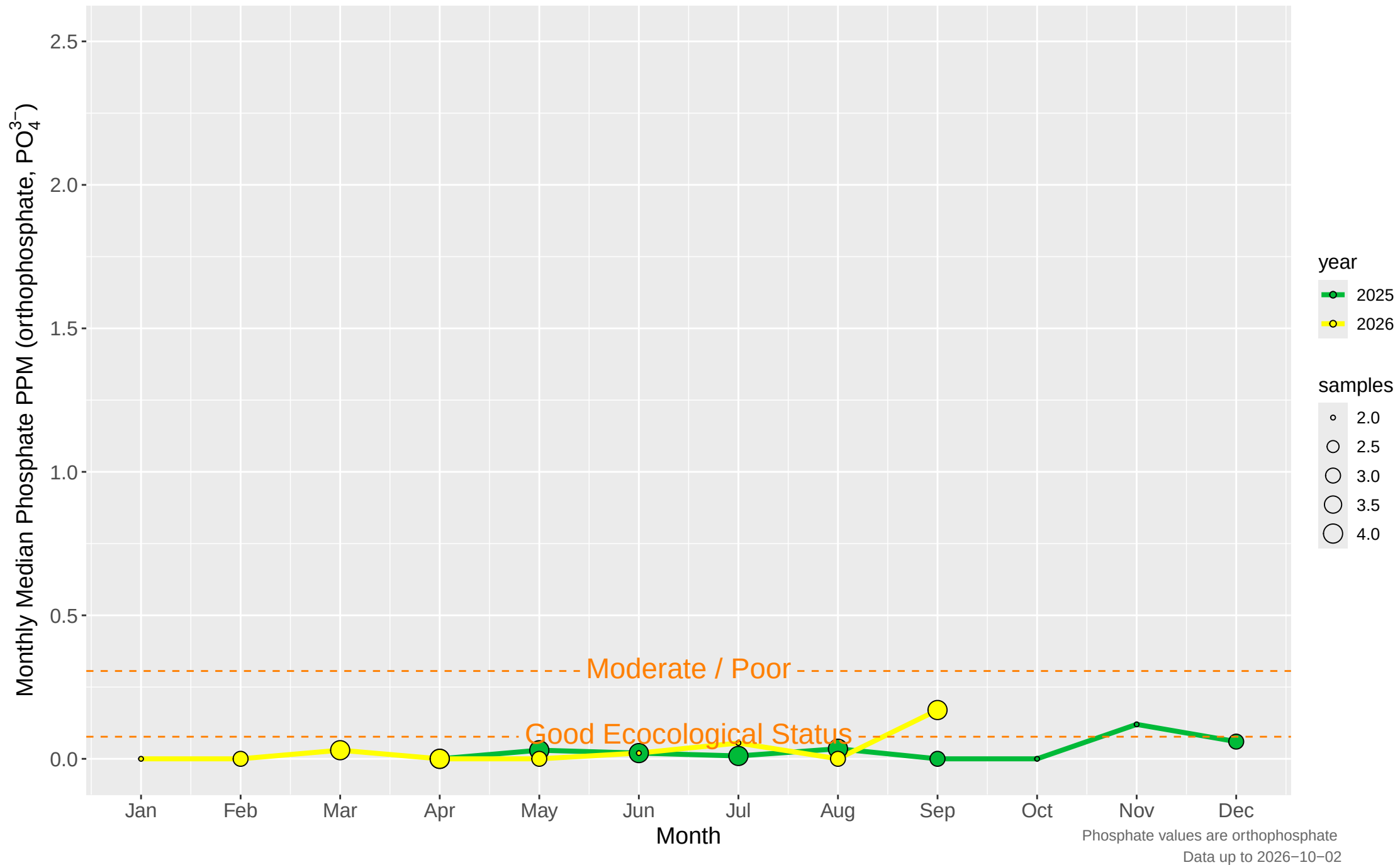
SafeAvon Phosphates – Individual Readings

Isbourne River – Winchcombe – B



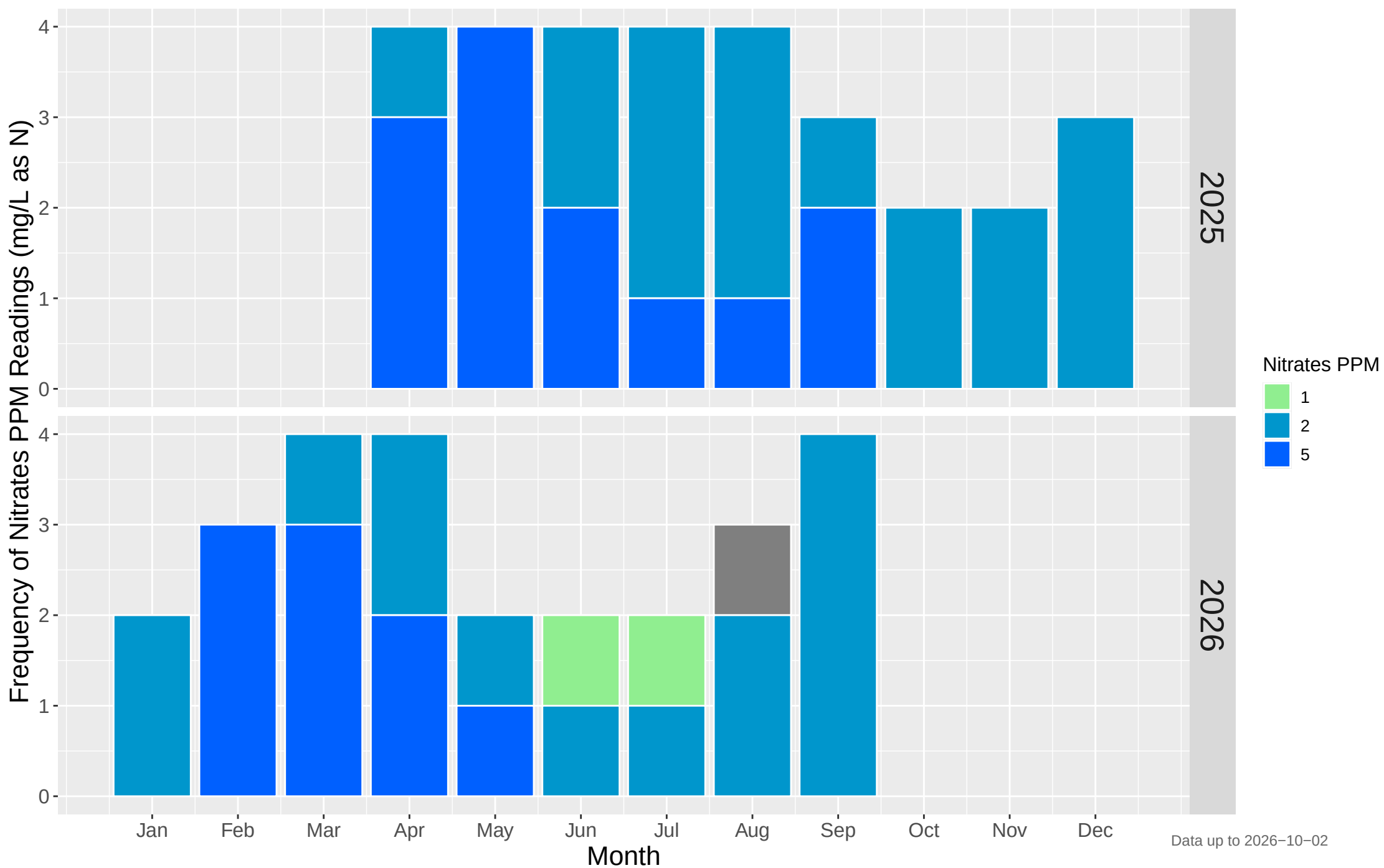
SafeAvon Phosphates – By Month

Isbourne River – Winchcombe – B



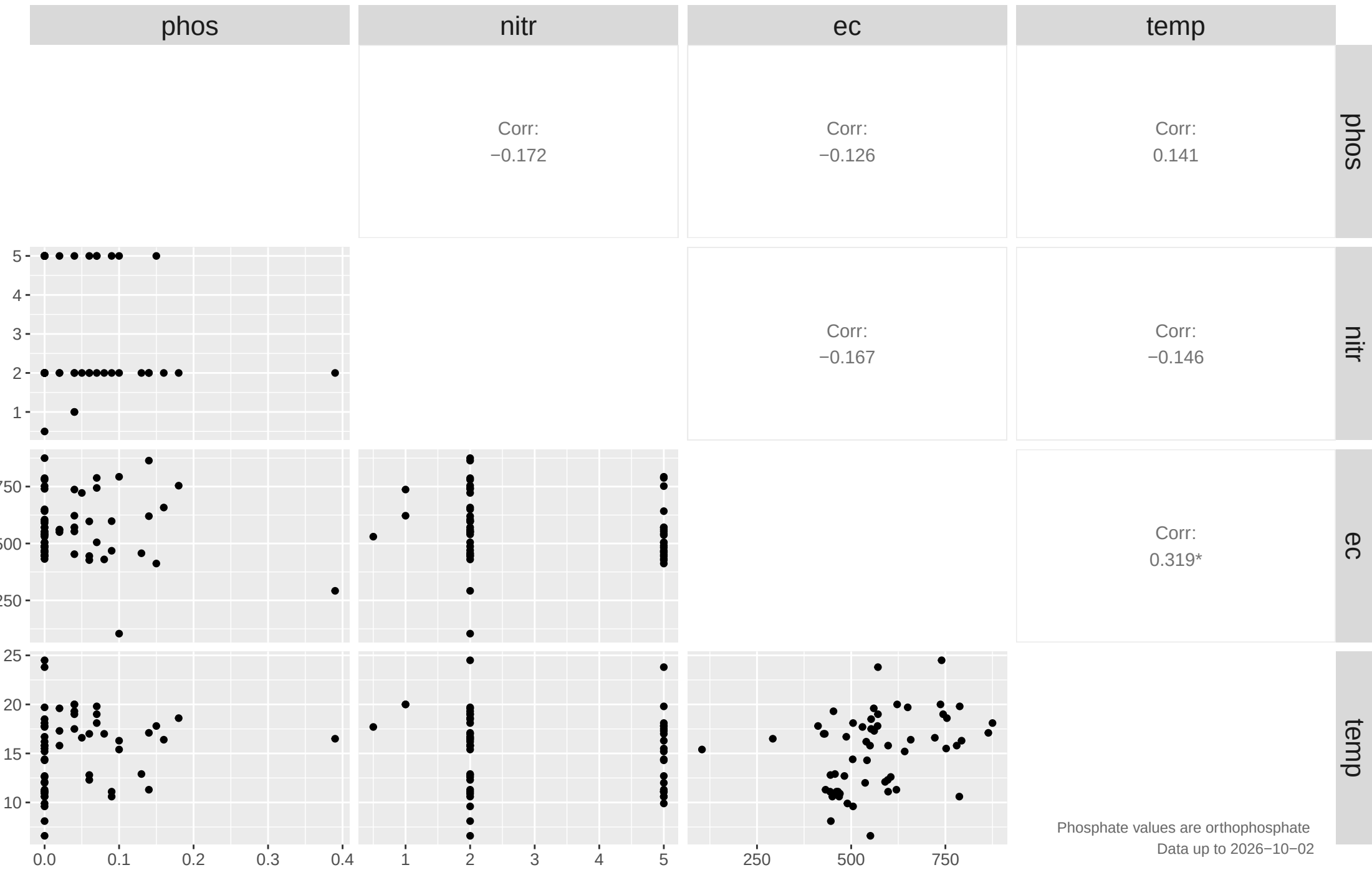
SafeAvon Nitrates By Month

Isbourne River – Winchcombe – B



Pairwise Testing Variables Relationships

Isbourne River – Winchcombe – B



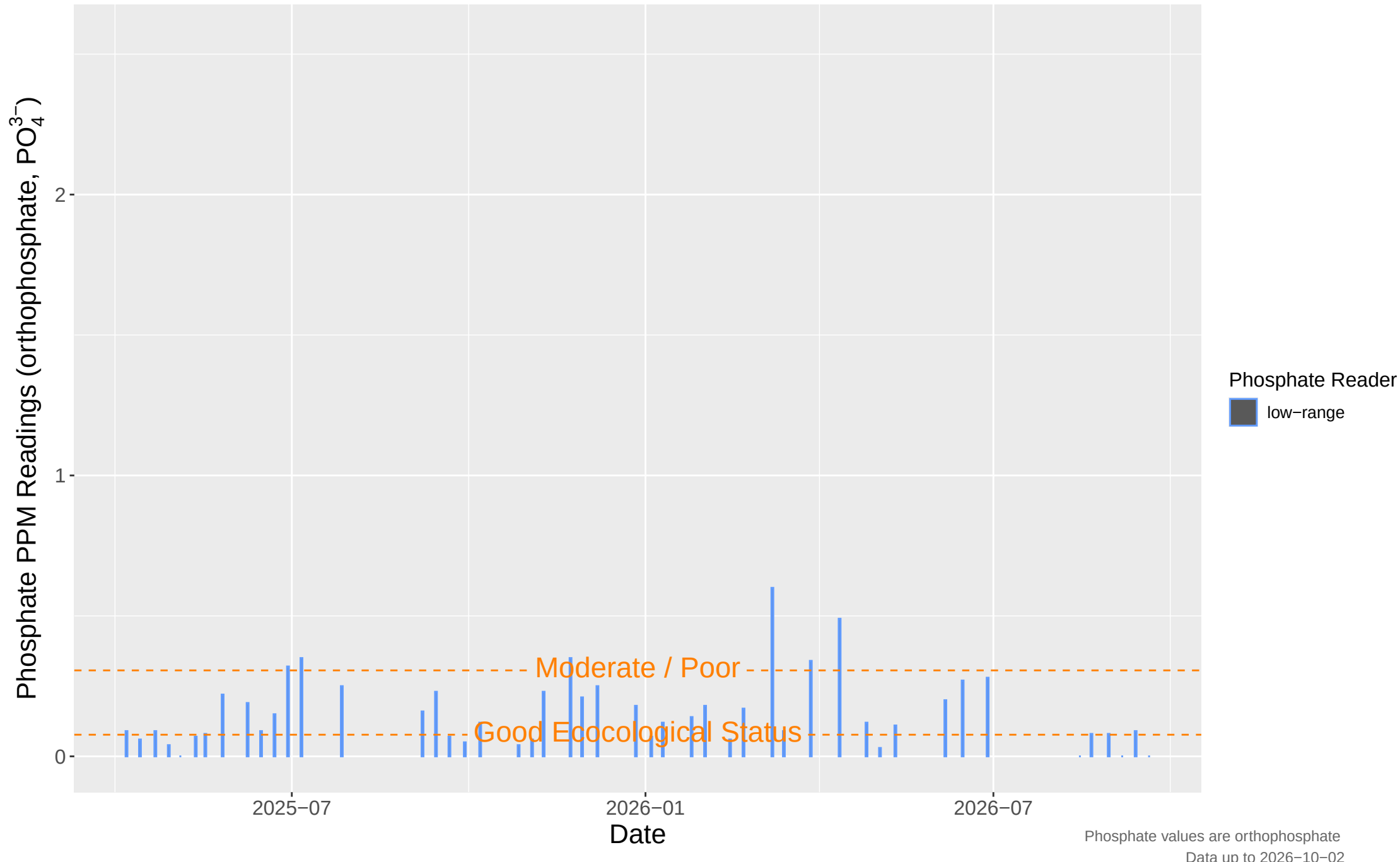
Site: Isbourne River – Winchcombe – A

Start Date: 2025-04-06 | Most Recent: 2026-09-20 | Total Samples: 48 | Distinct Volunteers: 4

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 25	8		0.00	0.08	0.22		0	1	5		188	352	387		11.3	12.7	12.8
Summer 25	6		0.09	0.22	0.35		0	0	2		93	377	395		13.4	14.7	21.1
Autumn 25	10		0.04	0.14	0.35		0	0	1		363	402	407		9.5	11.9	15.0
Winter 25-26	8		0.06	0.16	0.25		0	2	2		307	318	346		6.0	9.2	10.5
Spring 26	7		0.03	0.12	0.60		2	2	5		313	328	356		10.0	11.2	14.5
Summer 26	6		0.00	0.14	0.28		2	2	5		359	393	531		12.4	14.3	15.3
Autumn 26	3		0.00	0.00	0.09		2	2	2		529	530	531		14.3	14.8	15.6

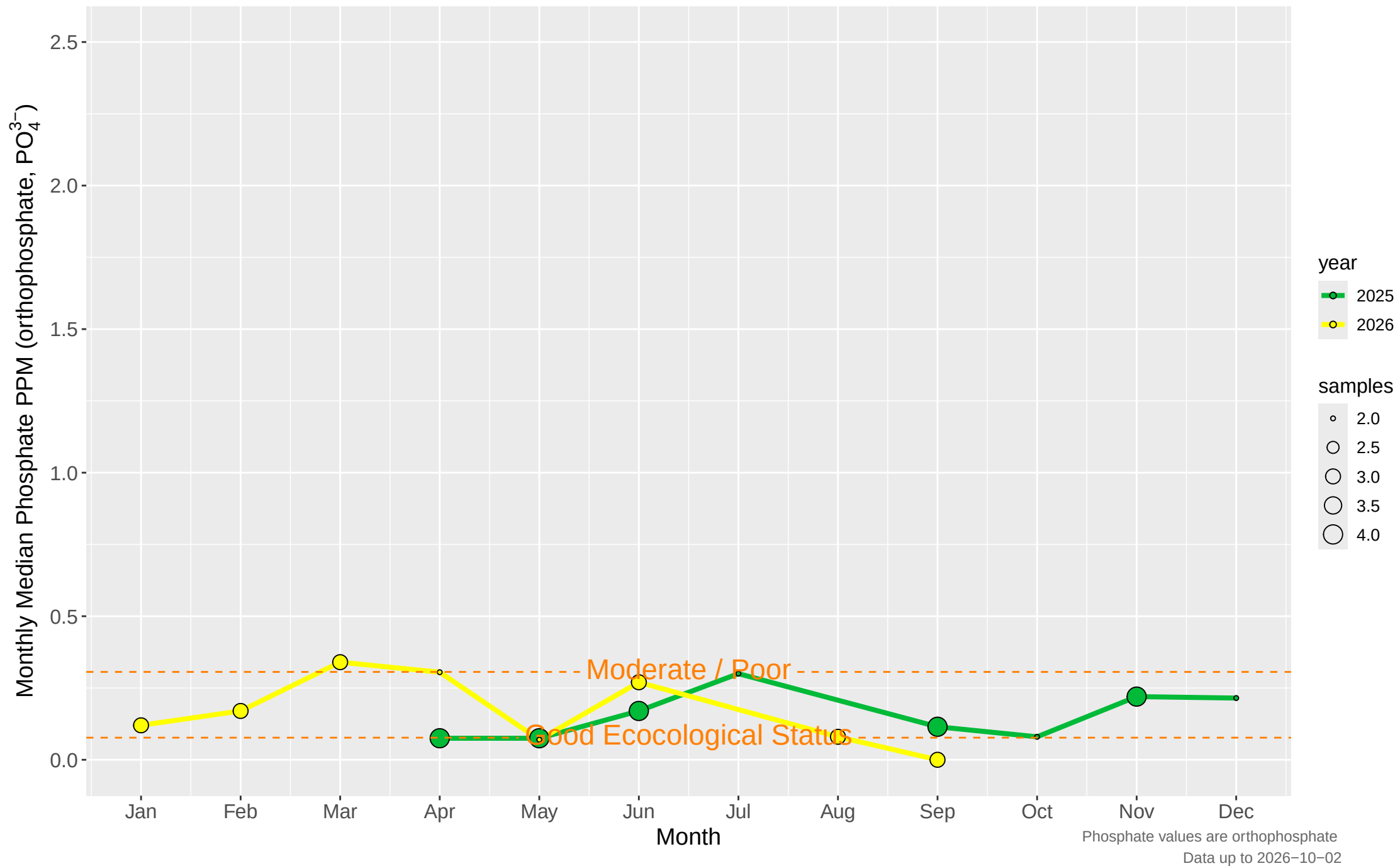
SafeAvon Phosphates – Individual Readings

Isbourne River – Winchcombe – A



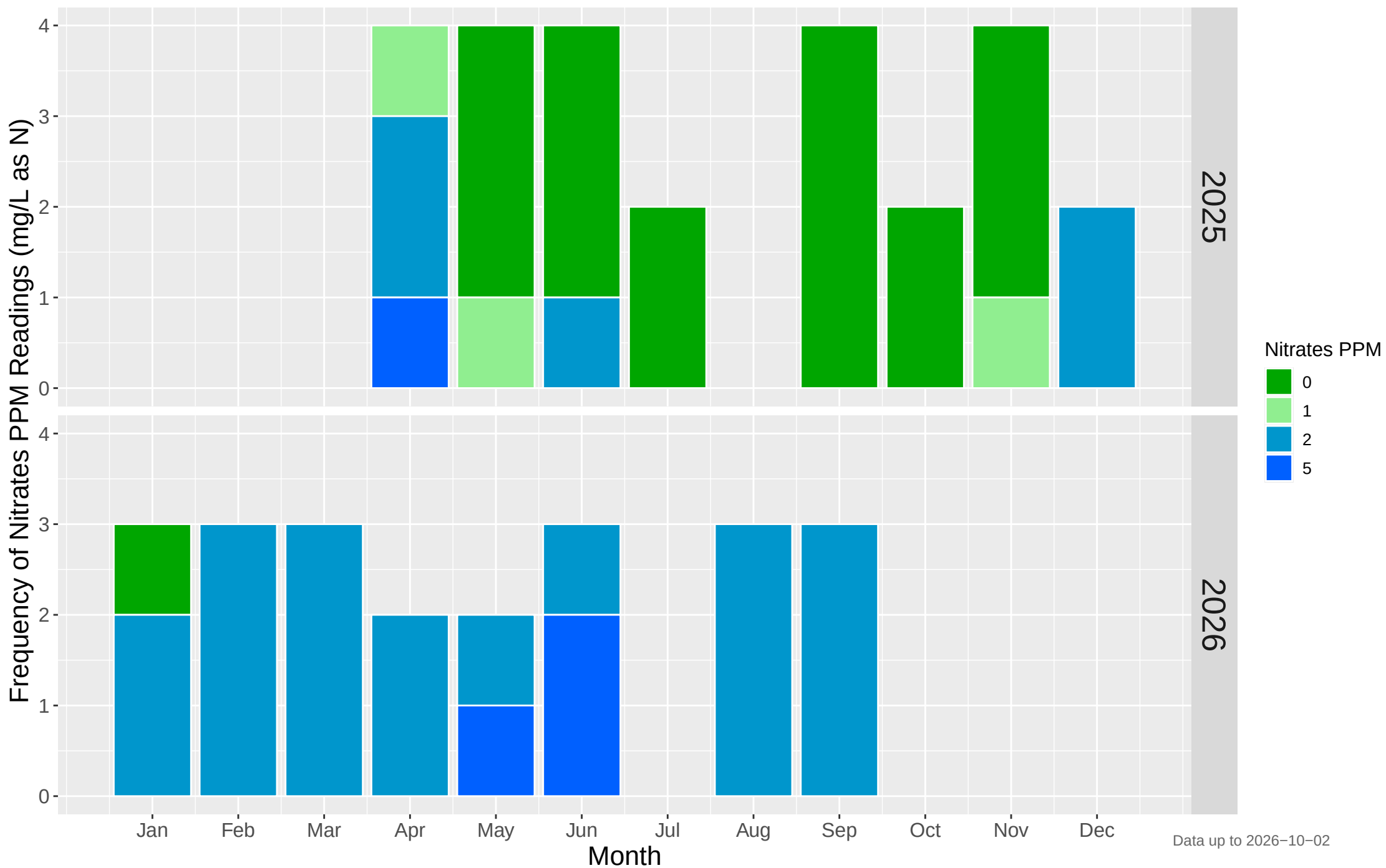
SafeAvon Phosphates – By Month

Isbourne River – Winchcombe – A



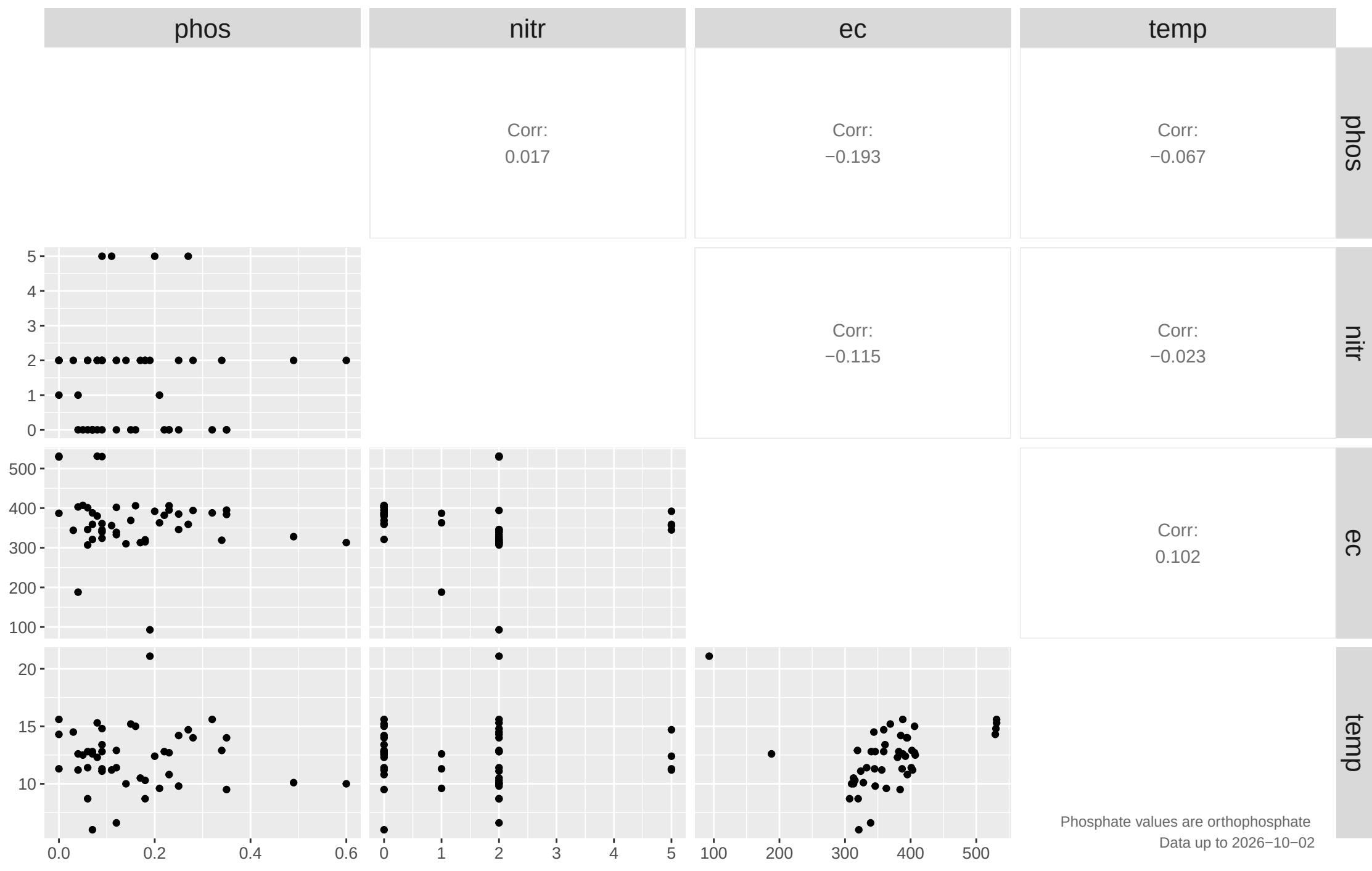
SafeAvon Nitrates By Month

Isbourne River – Winchcombe – A



Pairwise Testing Variables Relationships

Isbourne River – Winchcombe – A



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