

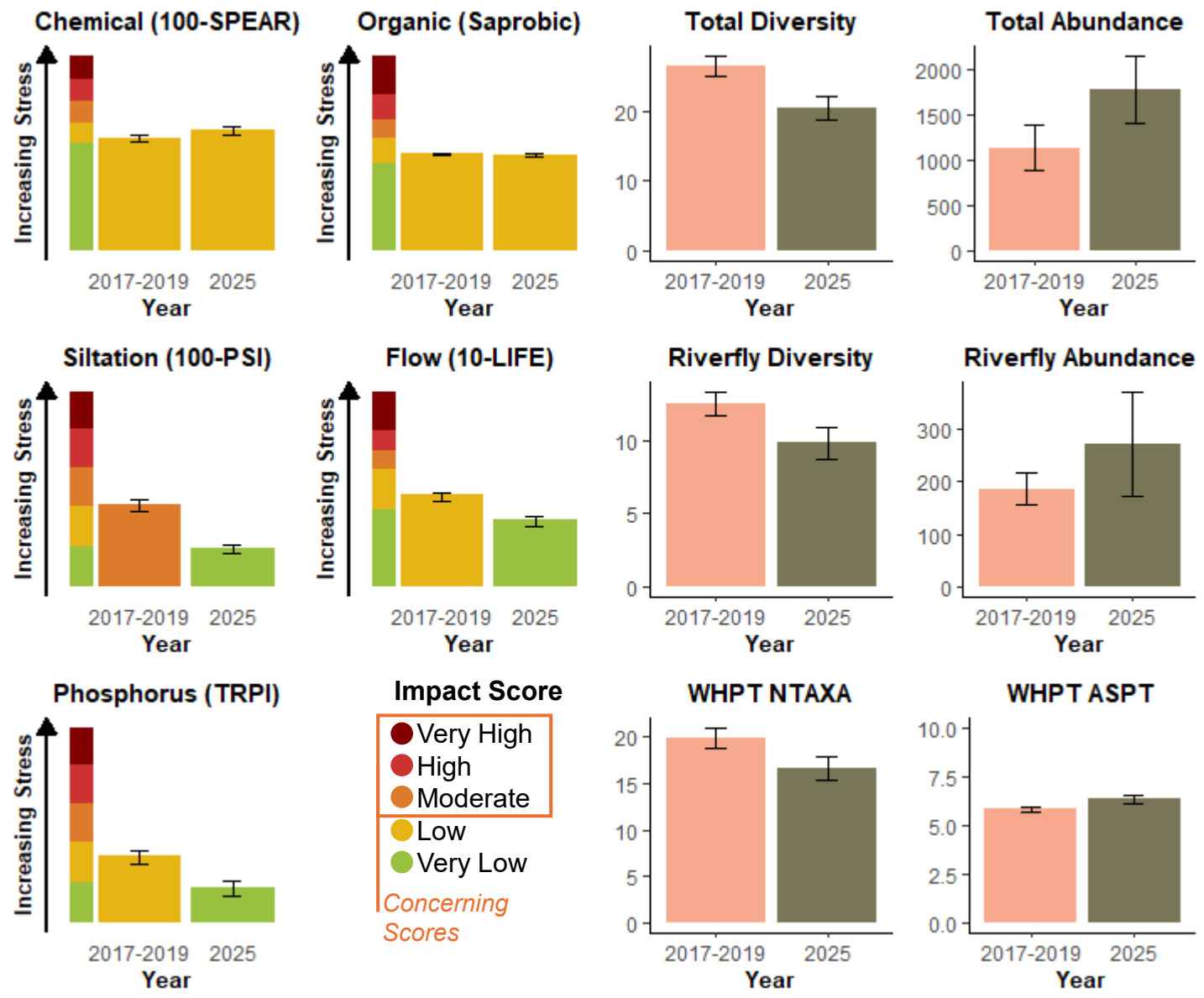


# Whitewater Valley Cons. Soc.

## River Whitewater

### Spring Data

#### Riverfly Census vs 2025 Comparison



This report is intended as a snapshot view of 2025 survey relative to the general state of the river/sites in the three years of Riverfly Census (RC) surveys. A good rule of thumb when looking at the graphs is that if the error bars overlap the difference between average values is unlikely to be significant.

*Note that two sites (4 and 6) have changed in 2025. Comparisons of these sites are included below (X) for interest rather than reliable analysis.*

### Water Quality Score Overview

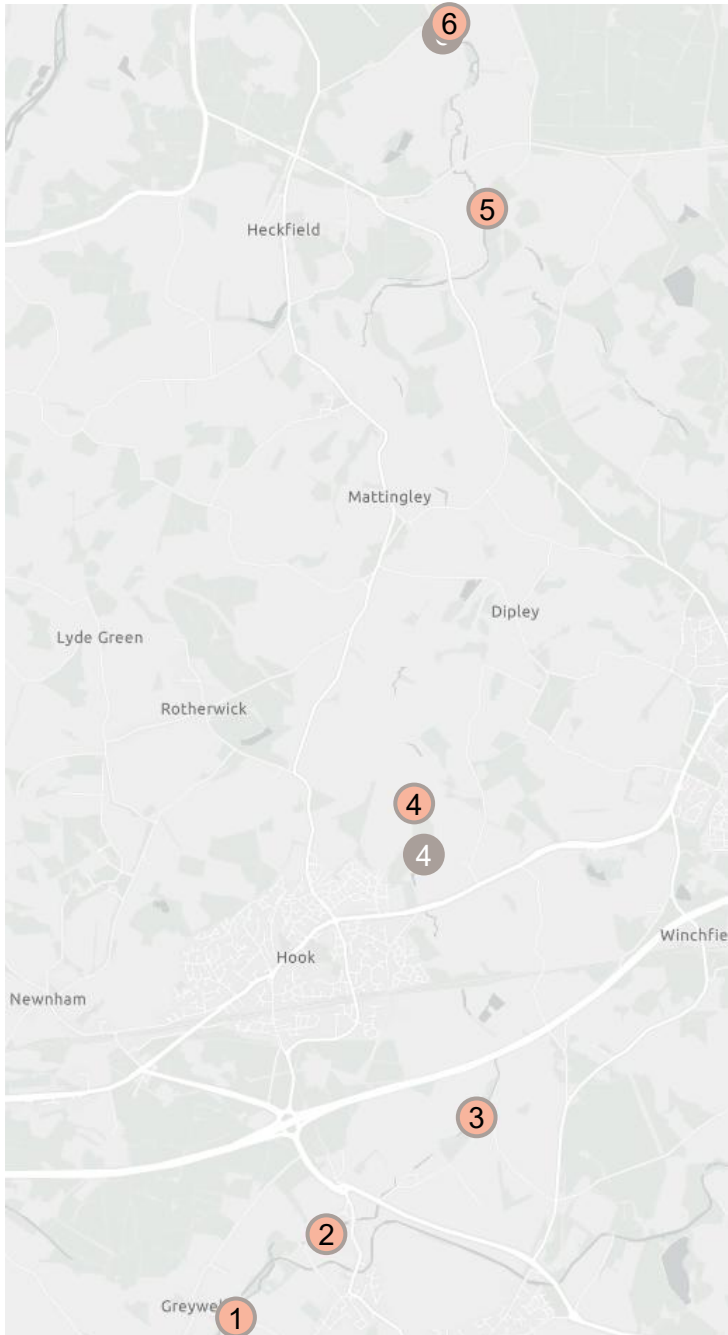
The most notable difference is an average decline in siltation pressure relative to RC data. Flow and phosphorus stress also seems to have reduced. Minimal change to organic enrichment. Slight increase to chemical impact.

### Invertebrate Community Overview

On average, for both the total invertebrate and riverfly communities, diversity seems to be lower while abundance is higher in the 2025 surveys. Note that error bars show that variation in abundance counts between the sites is more apparent in the 2025 survey.

Family-level (WHPT) metrics support the view diversity is reduced in 2025 but suggest that the 'quality' (proportion of higher scoring taxa) has increased.

*Water quality scores and invertebrate indices for all data. Showing comparisons between average values (± standard error) from the 2017-2019 surveys (n=35) and the 2025 survey data (n=6).*



**Sites**

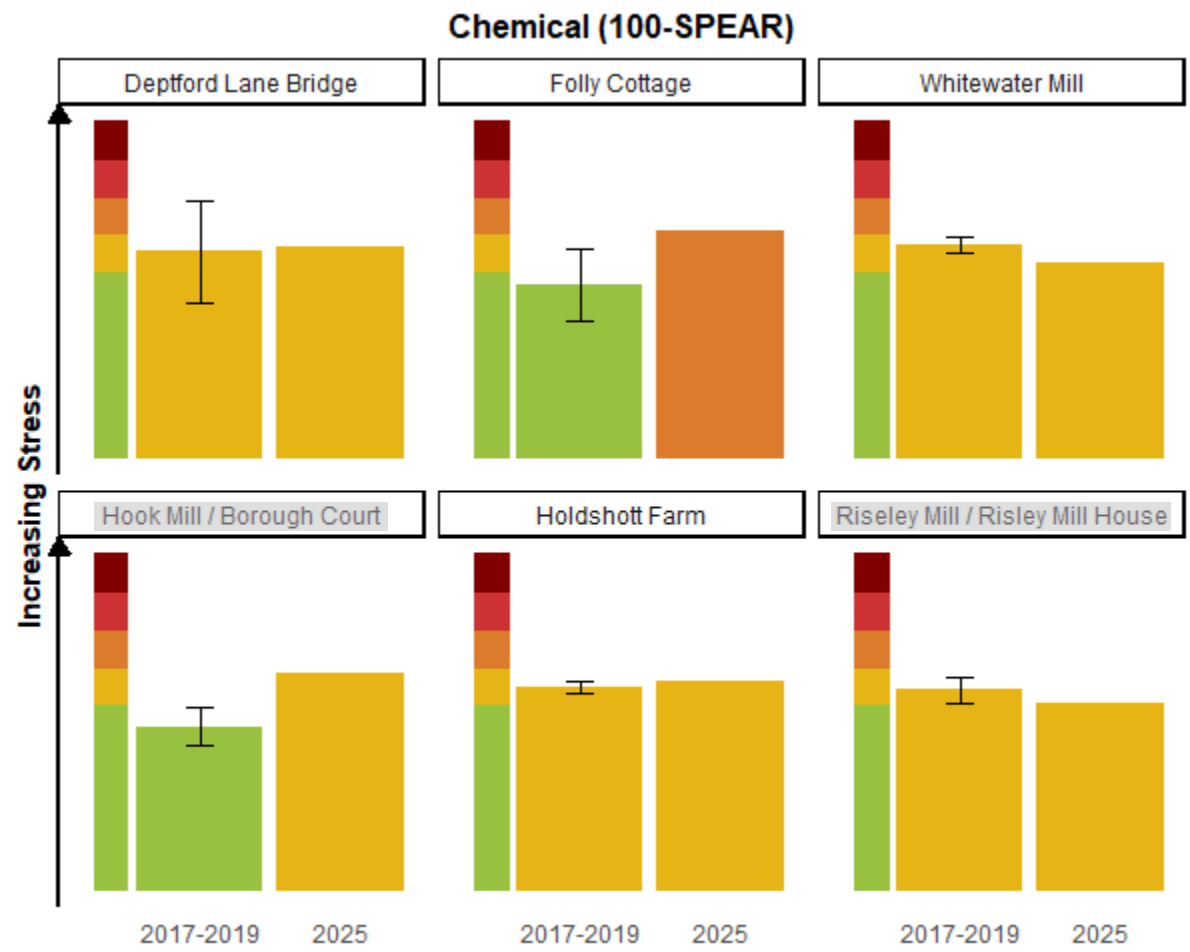
- 1: Deptford Lane Bridge
- 2: Folly Cottage
- 3: Whitewater Mill
- 4: Hook Mill (2017-2019)
- 4: Borough Court (2025)
- 5: Holdshott Farm
- 6: Riseley Mill (2017-2019)
- 6: Riseley Mill House (2025)

**Impact Score**

- : Active Site
- : Old Site
- Very High
- High
- Moderate
- Low
- Very Low

*Concerning Scores*

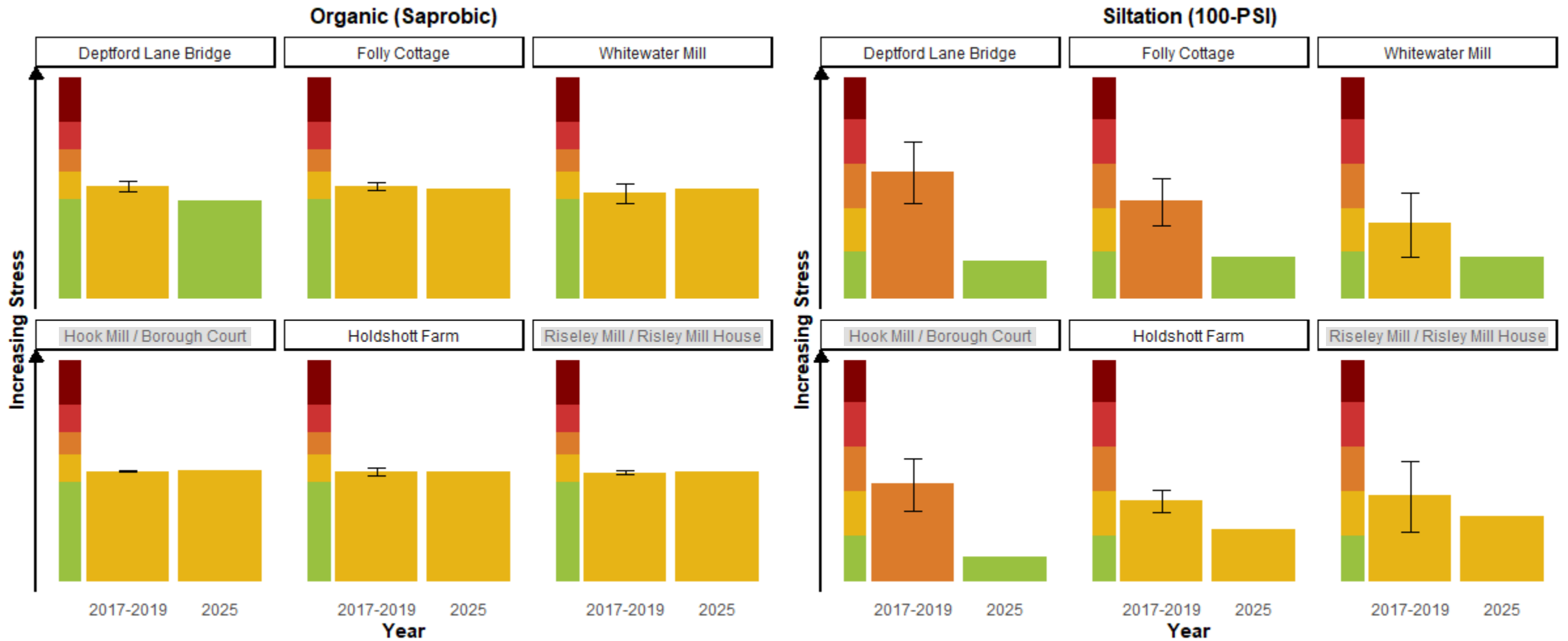
*The following graphs compare individual scores from 2025 to the average from the Riverfly Census (with error bars indicating the degree of variability over the three years). It's important to remember that there can be substantial natural year-to-year variability at a site. So, the comparison of a single year should be treated caution.*



Chemical impact scores split by site. Comparisons between average values (± standard deviation) from the 2017-2019 surveys and the recorded value for the 2025 survey.

**SPEAR**

The 2025 impact score at Folly Cottage considerably higher than the RC average. Differences at Deptford Lane Bridge, Whitewater Mill and Holdshott Farm minor



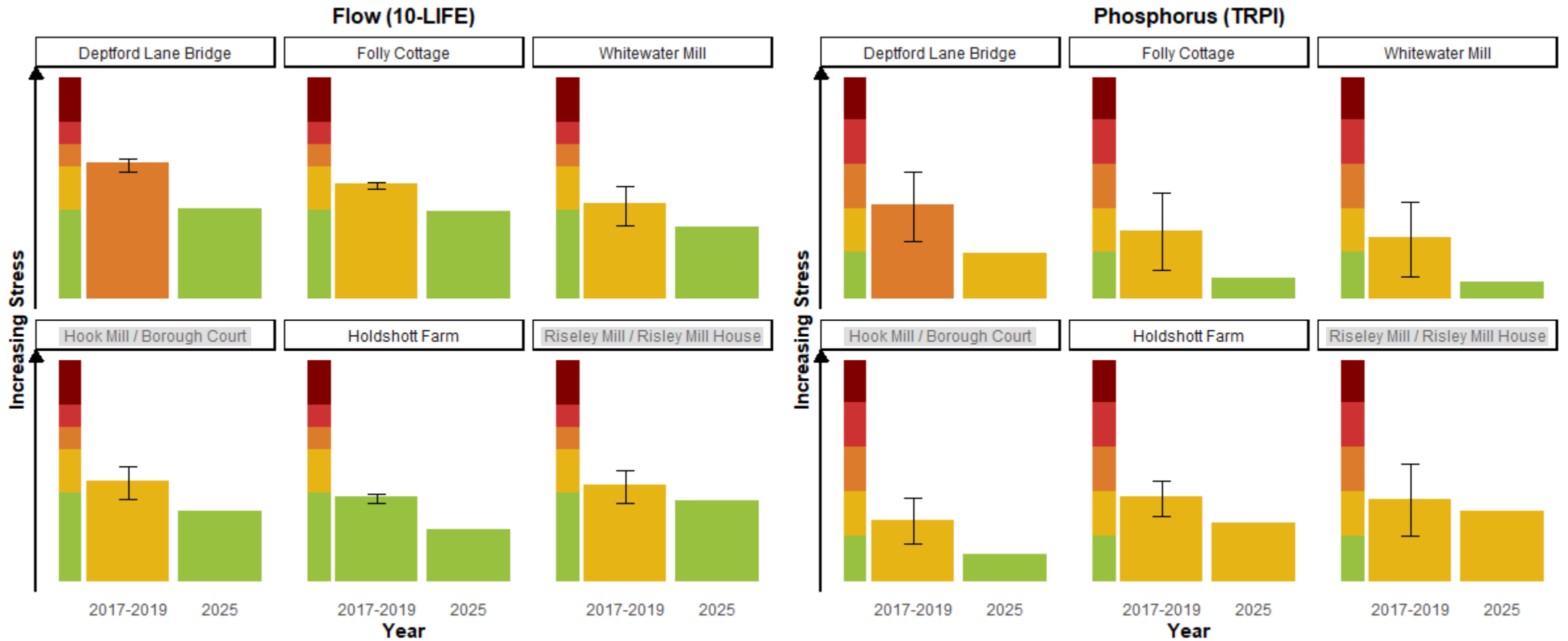
Water quality scores split by site. Comparisons between average values ( $\pm$  standard deviation) from the 2017-2019 surveys ( $n=3$ ) and the recorded value for the 2025 survey.

**Saprobic**

Slight reduction in organic enrichment for Deptford Lane Bridge. Little change at Folly Cottage, Whitewater Mill, and Holdshott Farm

**PSI**

Substantial reduction in siltation pressure at Deptford Lane Bridge and Folly Cottage. With reductions also seen at Whitewater Mill and Holdshott Farm.



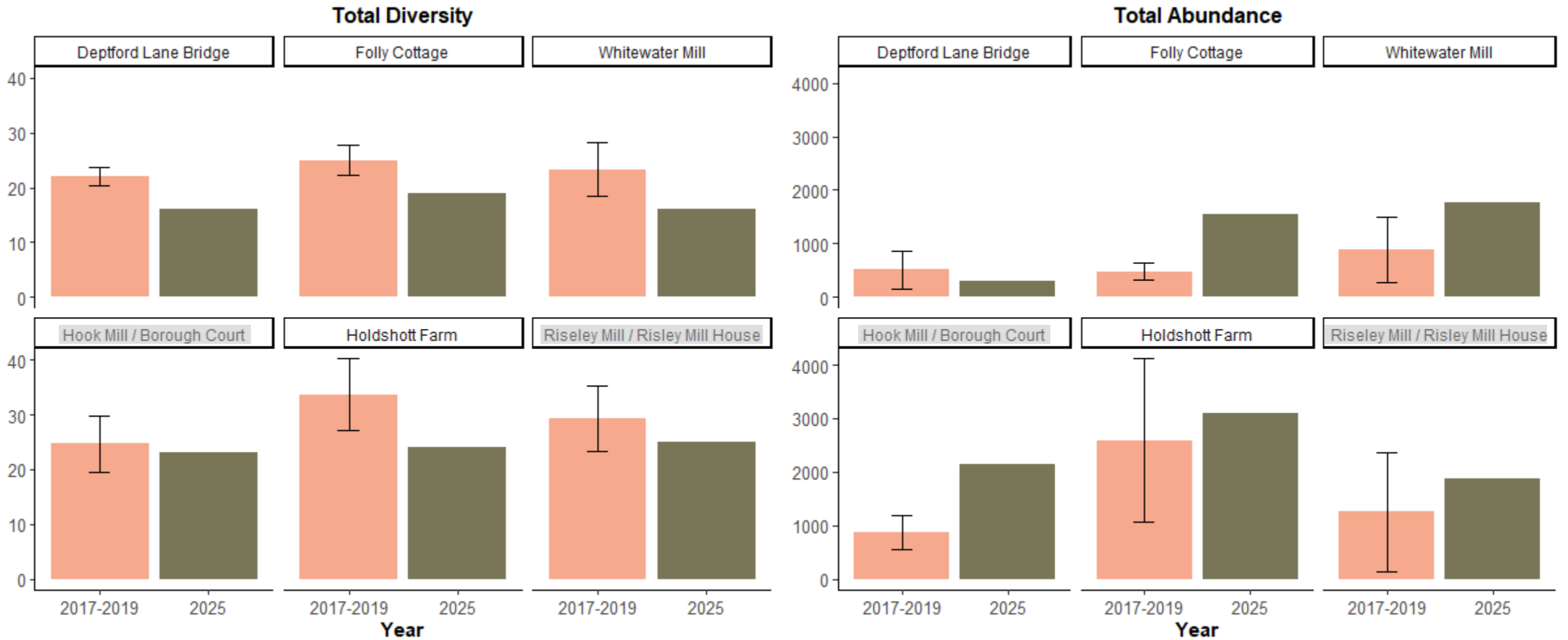
Water quality scores split by site. Comparisons between average values ( $\pm$  standard deviations) from the 2017-2019 surveys and the recorded value for the 2025 survey.

**LIFE**

Substantial reduction in flow stress for Deptford Lane Bridge. Lower impact scores also seen at Folly Cottage, Whitewater Mill, and Holdshott Farm

**TRPI**

Clear reduction in phosphorus impact at Deptford Lane Bridge. With reduced impacts also at Folly Cottage, Whitewater Mill, and Holdshott Farm.



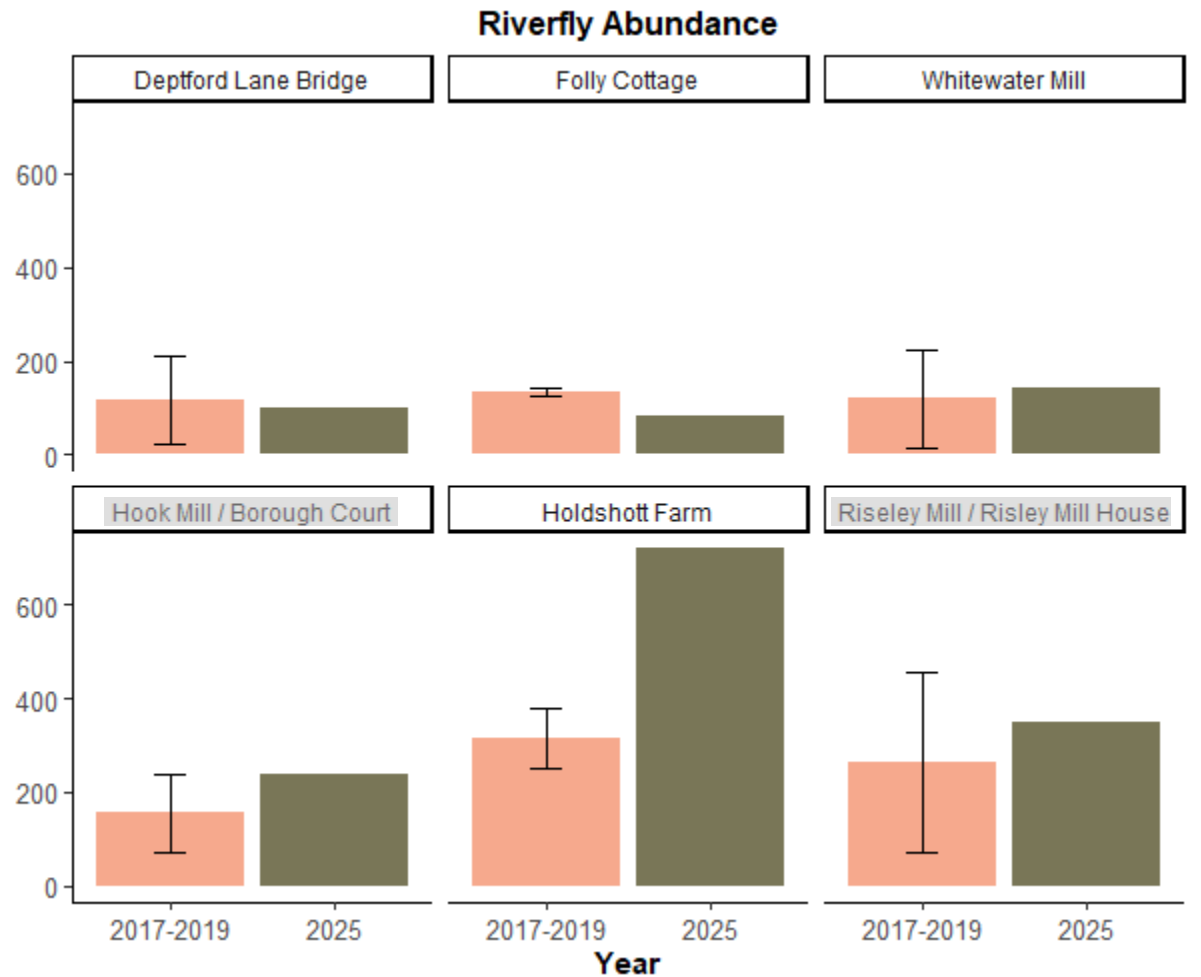
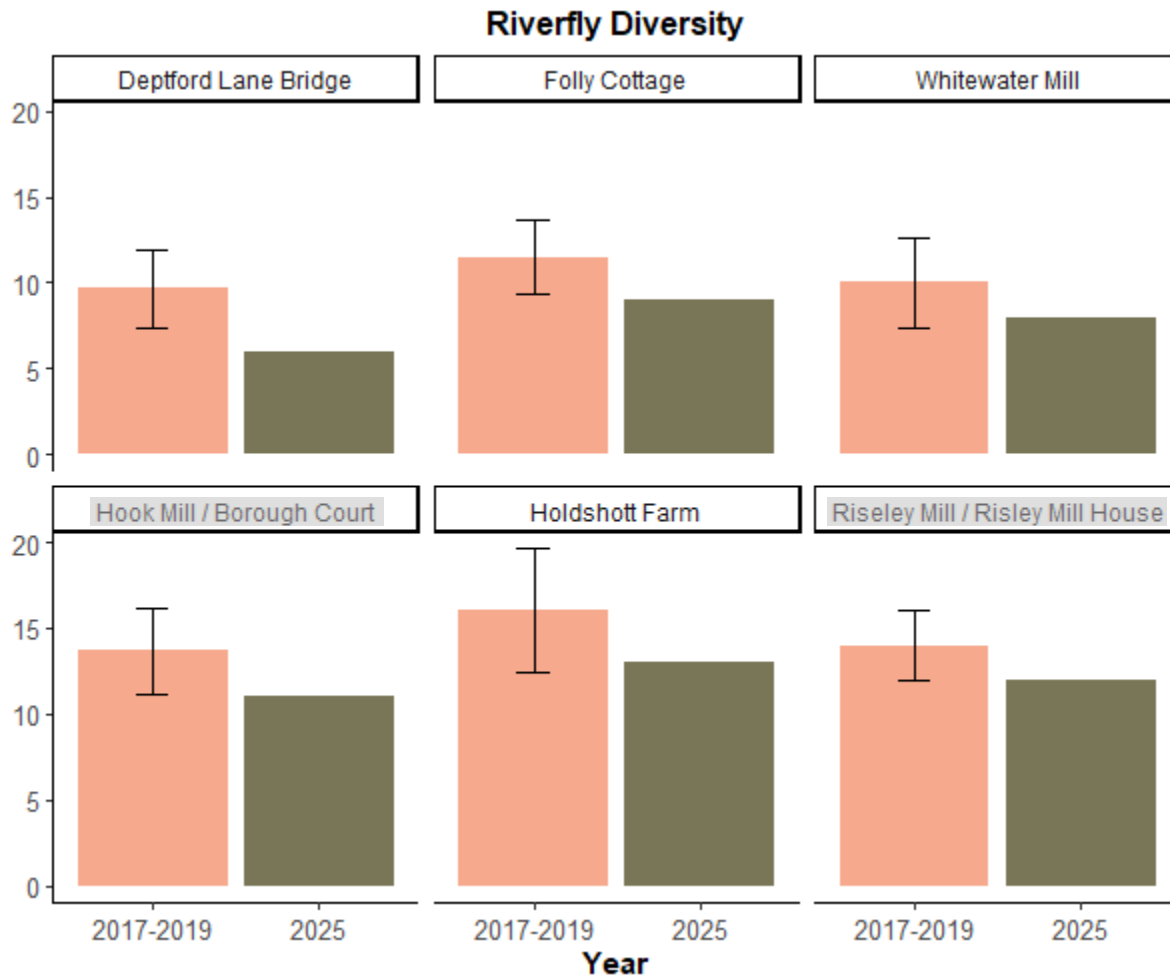
*Invertebrate indices split by site. Comparisons between average values ( $\pm$  standard deviation) from the 2017-2019 surveys and the recorded value for the 2025 survey.*

**Total Community Diversity**

A reduction in total diversity count seen at Deptford Lane Bridge, Folly Cottage, Whitewater Mill, and Holdshott Farm.

**Total Community Abundance**

A lower abundance count for Deptford Lane Bridge in 2025, with Folly Cottage, Whitewater Mill, and Holdshott Farm all having higher counts. Abundance at Holdshott farm particularly variable for RC data.



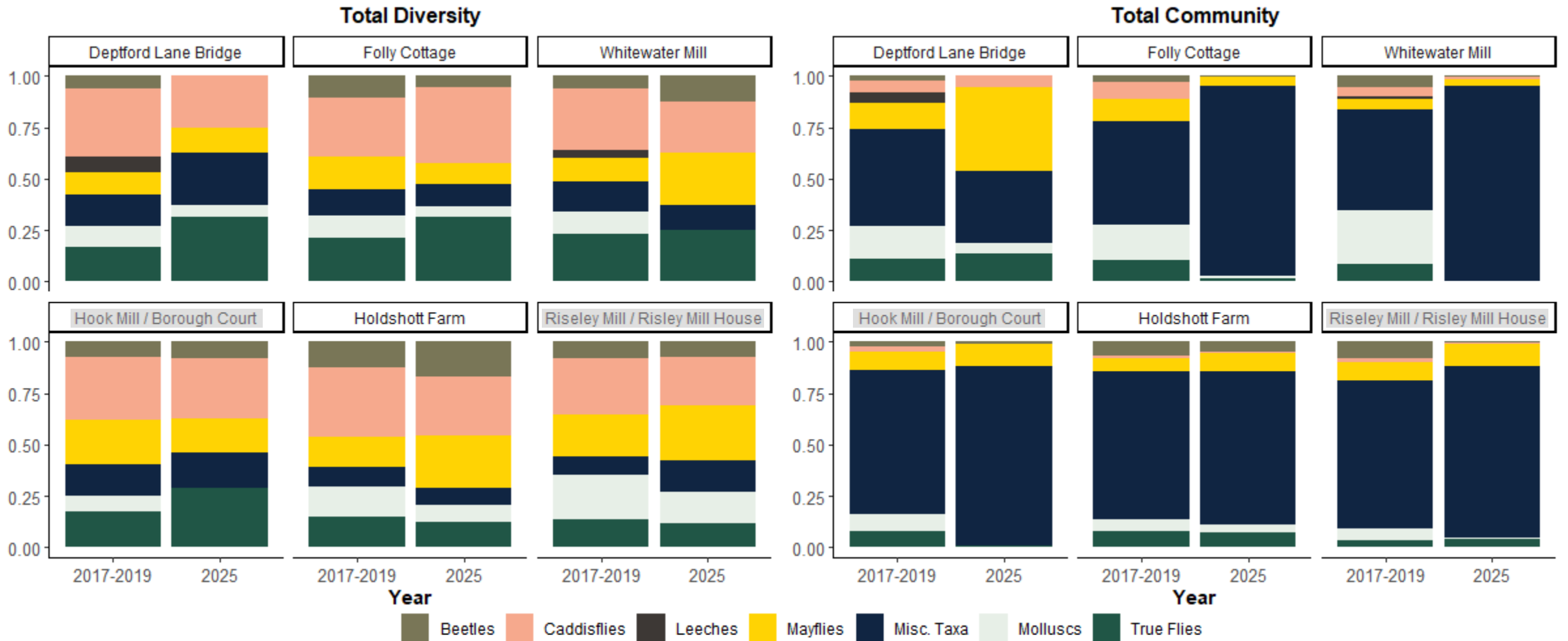
*Invertebrate indices split by site. Comparisons between average values ( $\pm$  standard deviation) from the 2017-2019 surveys and the recorded value for the 2025 survey.*

**Riverfly Community Diversity**

A reduction in total diversity count seen at Deptford Lane Bridge and Folly, with lower counts also at Whitewater Mill, and Holdshott Farm.

**Riverfly Community Abundance**

A lower abundance count for Folly Cottage and a higher count for Holdshott Farm in 2025. Counts for Deptford Lane Bridge and Whitewater Mill well within RC ranges.



*Invertebrate community (relative proportions of SmartRivers Groups) split by site. Comparisons between average values from the 2017-2019 surveys and the recorded value for the 2025 survey.*

**Total Community Composition - Diversity**  
 Increase to proportions of true flies at Deptford Lane Bridge and Folly Cottage.  
 Increase to mayflies at Whitewater Mill and Holdshott Farm. Mollusc diversity reduced for all sites, and no leeches found in 2025.

**Riverfly Community Composition - Abundance**  
 Misc. Taxa generally forming majority of individuals for both RC and 2025 samples, with freshwater shrimp the dominant species. Mollusc abundance lower in 2025 for upstream sites. Mayflies forming greater proportion of community at Deptford Lane Bridge. Signal crayfish numbers at Deptford Lane Bridge and Borough Court in 2025 considerably higher than RC surveys.