Key for alllampweireventsJoAE.csv

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| --- | --- | --- |
| Column | Explanation | Unit |
| date.time | The date and time of the observation | YY-MM-DD HH:MM:SS |
| id | Individual fish ID |  |
| year | The year of the observation | Year |
| starttime | The date and time of the start of the weir approach | YY-MM-DD HH:MM:SS |
| endtime | The date and time of the end of the weir approach | YY-MM-DD HH:MM:SS |
| outcome | Whether the individual passed the weir within 15 minutes of the observation | Passed = 1; Did not pass = 0 |
| timesincestart | Time between start of weir approach and observation | Hours |
| length\_mm | Total length of individual lamprey | mm |
| sax\_flow | River flow measured at Saxons lode gauge | m3s-1 |
| deer\_temp | River temperature measured at Deerhurst gauge | Celsius |
| haw\_lev | River level measured at Haw bridge gauge | m |
| haw\_adj | River level measured at Haw bridge gauge, adjusted by 45 minutes to account for delay in spring tides influencing river level at Weir S2 | m |
| brans\_lev | River level measured at Bransford gauge | m |
| brans\_temp | River temperature measured at Bransford gauge | Celsius |
| timeofday | Diel period in relation to sunrise/sunset at time of observation | Day/Night |
| brans\_lev\_estimate | River level at Bransford gauge estimated from similar trends for missing data | m |
| brans\_temp\_interp | River temperature at Bransford gauge estimated from river temperature at Deerhurst for missing data | Celsius |
| brans\_lev\_est | Combined Bransford river level and estimated level data | m |
| brans\_temp\_est | Combined Bransford river temperature and estimated temperature data | Celsius |
| temperature | Binned temperature classes | Celsius |
| flow | Binned river flow classes | m3s-1 |
| mitigation | Whether the observation occurred pre- or post- mitigation/remediation of weir |  |
| Weir | The weir the observation occurred at |  |

Key for allshadweireventsJoAE.csv

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| --- | --- | --- |
| Column | Explanation | Unit |
| date.time | The date and time of the observation | YY-MM-DD HH:MM:SS |
| id | Individual fish ID |  |
| year | The year of the observation |  |
| starttime | The date and time of the start of the weir approach | YY-MM-DD HH:MM:SS |
| endtime | The date and time of the end of the weir approach | YY-MM-DD HH:MM:SS |
| outcome | Whether the individual passed the weir within 15 minutes of the observation | Passed = 1; Did not pass = 0 |
| timesincestart | Time between start of weir approach and observation | Hours |
| sex | The sex of the individual fish | Male = m; Female = f; Unknown, but probable female = f?; Unknown = NA |
| length\_mm | Fork length of individual shad | mm |
| new | Whether individual was tagged in year of observation, or in a previous year | Newly tagged = 1; Tagged in a previous year = 0 |
| virgin | Whether individual is a virgin or previous spawner | Virgin = 1; Previous spawner = 0; Unknown = NA |
| sax\_flow | River flow measured at Saxons lode gauge | m3s-1 |
| deer\_temp | River temperature measured at Deerhurst gauge | Celsius |
| haw\_lev | River level measured at Haw bridge gauge | m |
| haw\_adj | River level measured at Haw bridge gauge, adjusted by 45 minutes to account for delay in spring tides influencing river level at Weir S2 | m |
| brans\_lev | River level measured at Bransford gauge | m |
| brans\_temp | River temperature measured at Bransford gauge | Celsius |
| timeofday | Diel period in relation to sunrise/sunset at time of observation | Day/Night |
| brans\_lev\_estimate | River level at Bransford gauge estimated from similar trends for missing data | m |
| brans\_temp\_interp | River temperature at Bransford gauge estimated from river temperature at Deerhurst for missing data | Celsius |
| brans\_lev\_est | Combined Bransford river level and estimated level data | m |
| brans\_temp\_est | Combined Bransford river temperature and estimated temperature data | Celsius |
| temperature | Binned temperature classes | Celsius |
| flow | Binned river flow classes | m3s-1 |
| mitigation | Whether the observation occurred pre- or post- mitigation/remediation of weir |  |
| Weir | The weir the observation occurred at |  |