|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table Sx**. Generalized additive models (GAM) testing treatment (burned vs. unburned) and factor-smooth interaction effects on zooplankton (Daphniidae, Copepoda) and mosquito larvae (*Culex* spp.) at four time points. Separate smoothers were fit for burned and unburned data, and anova tables were generated by *anova.gam*(). | | | | | |
| **Daphniidae** | |  |  |  |  |
|  | *Effect* | *df /edf* | *Ref.df* | *F* | *p-value* |
|  |  |  |  |  |  |
| Day-10 | s(plant material) | 1.000 | 1.000 | 4.023 | 0.055 |
|  |  |  |  |  |  |
| Day-31 | s(plant material) | 2.849 | 3.492 | 2.998 | **0.047** |
|  |  |  |  |  |  |
| Day-59 | Treatment | 1.000 | – | 11.540 | **0.002** |
|  | s(plant material) : burned | 2.296 | 2.826 | 1.482 | 0.194 |
|  | s(plant material) : unburned | 1.000 | 1.000 | 0.470 | 0.499 |
|  |  |  |  |  |  |
| Day-89 | s(plant material) | 2.227 | 2.744 | 2.301 | 0.127 |
|  |  |  |  |  |  |
| **Copepoda** | |  |  |  |  |
|  |  |  |  |  |  |
| Day-10 | s(plant material) | 1.750 | 2.165 | 6.656 | **0.004** |
|  |  |  |  |  |  |
| Day-31 | Treatment | 1.000 | – | 3.968 | 0.068 |
|  | s(plant material) : burned | 1.603 | 1.977 | 0.521 | 0.629 |
|  | s(plant material) : unburned | 5.106 | 6.109 | 6.173 | **0.001** |
|  |  |  |  |  |  |
| Day-59 | s(plant material) | 1.000 | 1.000 | 2.496 | 0.125 |
|  |  |  |  |  |  |
| Day-89 | s(plant material) | 1.000 | 1.000 | 1.625 | 0.213 |
|  |  |  |  |  |  |
| **Mosquito** | |  |  |  |  |
|  |  |  |  |  |  |
| Day-10 | Treatment | 1.000 | – | 17.600 | **<0.001** |
|  | s(plant material) : burned | 1.000 | 1.000 | 2.611 | 0.120 |
|  | s(plant material) : unburned | 4.436 | 5.357 | 62.444 | **<0.001** |
|  |  |  |  |  |  |
| Day-31 | Treatment | 1.000 | – | 5.655 | **0.027** |
|  | s(plant material) : burned | 3.970 | 4.819 | 4.980 | **0.003** |
|  | s(plant material) : unburned | 2.487 | 3.057 | 27.250 | **<0.001** |
|  |  |  |  |  |  |
| Day-59 | Treatment | 1.000 | – | 47.330 | **<0.001** |
|  | s(plant material) : burned | 7.942 | 8.676 | 31.600 | **<0.001** |
|  | s(plant material) : unburned | 6.417 | 7.470 | 188.400 | **<0.001** |
|  |  |  |  |  |  |
| Day-89 | Treatment | 1.000 | – | 1.588 | 0.219 |
|  | s(plant material) : burned | 1.000 | 1.000 | 1.848 | 0.186 |
|  | s(plant material) : unburned | 1.000 | 1.000 | 28.289 | **<0.001** |
| *Treatment* indicates the parametric term in GAM, *s(plant material)* is the smooth term for either burned or unburned treatments. *df / edf* column indicates either *df* (degrees of freedom) for parametric terms or *edf* (effective degrees of freedom) for smoother terms; *Ref.df* = reference degree of freedom, where dashes indicate NA for parametric terms. Significant effects (p<0.05) are in bold. | | | | | |