**S1 Appendix**

**Significant results of the GAM (N > 20)**

**Locomotion** (N = 732)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Estimate** | **p-value** | **edf** | **Deviance explained** |
| non-track  track | -0,68 | < 0,001 \*\*\* | 7,97 | 10,10 % |
| forest aisle  non-forest aisle | 0,49 | 0,002 \*\* | 7,97 | 9,88 % |
| pond  non-pond | 1,62 | < 0,001 \*\*\* | 7,97 | 10,90 % |
| tree\_broad-leaved forest  tree\_coniferous forest  tree\_mixed forest  tree\_no trees | -0,38  -0,42  -0,70 | 0,005 \*\*  0,022 \*  > 0,05 | 7,97 | 9,86 % |
| shrub\_broad-leaved forest  shrub\_mixed forest  shrub\_no shrubs  shrub\_coniferous forest | -0,54  -0,60  -0,65 | 0,005 \*\*  < 0,001 \*\*\*  < 0,001 \*\*\* | 7,97 | 10,00 % |
| herb\_herbs  herb\_P.a.&V.m.  herb\_V.m.  herb\_P.a.  herb\_no herbs | 0,36  0,12  0,06  -0,23 | 0,047 \*  > 0,05  > 0,05  > 0,05 | 7,97 | 10,10 % |
| herb\_50-100 %  herb\_0-50 %  herb\_0 % | 0,58  0,24 | < 0,001 \*\*\*  > 0,05 | 7,97 | 10,10 % |
| deadwood\_25-50 %  deadwood \_0-25 %  deadwood \_0 % | 0,41  0,02 | < 0,001 \*\*\*  > 0,05 | 7,97 | 10,10 % |
| no significant differences:  tree cover, shrub cover | | | | |

**Olfactory behaviour**

Sniffing and winding (N = 306)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Estimate** | **p-value** | **edf** | **Deviance explained** |
| non-track  track | -0,79 | 0,008 \*\* | 7,87 | 8,99 % |
| pond  non-pond | 2,71 | < 0,001 \*\*\* | 7,87 | 14,4 % |
| shrub\_broad-leaved forest  shrub\_no shrubs  shrub\_mixed forest  shrub\_coniferous forest | -0,21  -0,45  -0,72 | > 0,05  > 0,05  0,015 \* | 7,87 | 8,94 % |
| herb\_herbs  herb\_AF  herb\_HB  herb\_no herbs  herb\_AF&HB | 0,62  -0,09  -0,67  -0,91 | 0,019 \*  > 0,05  0,033 \*  > 0,05 . | 7,87 | 10,70 % |
| herb\_50-100 %  herb\_0-50 %  herb\_0 % | 1,23  0,48 | < 0,001 \*\*\*  > 0,05 . | 7,87 | 10,30 % |
| deadwood\_25-50 %  deadwood\_0 %  deadwood\_0-25 % | 0,53  -0,28 | 0,003 \*\*  > 0,05 . | 7,87 | 9,44 % |
| no significant differences:  forest aisle, tree layer, tree cover, shrub cover | | | | |

**Vigilance behaviour** (N = 188)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Estimate** | **p-value** | **edf** | **Deviance explained** |
| forest aisle  non-forest aisle | 0,75 | < 0,001 \*\*\* | 7,87 | 8,44 % |
| pond  non-pond | 1,29 | < 0,001 \*\*\* | 7,87 | 8,45 % |
| tree\_broad-leaved forest  tree\_mixed forest  tree\_coniferous forest  tree\_no trees | -0,11  -0,41  -0,51 | > 0,05  0,047 \*  > 0,05 | 7,87 | 8,12 % |
| shrub\_broad-leaved forest  shrub\_mixed forest  shrub\_coniferous forest  shrub\_no shrubs | -0,59  -0,75  -0,84 | 0,029 \*  0,004 \*\*  < 0,001 \*\*\* | 7,87 | 8,50 % |
| herb\_50-100 %  herb\_0-50 %  herb\_0 % | 0,50  0,41 | 0,023 \*  > 0,05 . | 7,87 | 8,19 % |
| deadwood\_25-50 %  deadwood\_0-25 %  deadwood\_0 % | 0,47  0,13 | 0,002 \*\*  > 0,05 | 7,87 | 8,40 % |
| no significant differences:  track, tree cover, shrub cover, herb layer | | | | |

**Foraging behaviour**

Rooting & pawing (N = 81)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Estimate** | **p-value** | **edf** | **Deviance explained** |
| forest aisle  non-forest aisle | 0,71 | 0,033 \* | 7,89 | 8,64 % |
| pond  non-pond | 1,53 | < 0,001 \*\*\* | 7,89 | 9,03 % |
| tree\_broad-leaved forest  tree\_mixed forest  tree\_coniferous forest  tree\_no trees | -1,13  -1,36  -34,42 | 0,002 \*\*  < 0,001 \*\*\*  > 0,05 | 7,89 | 10,90 % |
| shrub\_broad-leaved forest  shrub\_no shrubs  shrub\_mixed forest  shrub\_coniferous forest | -0,99  -1,05  -2,22 | 0,002 \*\*  0,007 \*\*  < 0,001 \*\*\* | 7,89 | 10,90 % |
| herb\_herbs  herb\_P.a.  herb\_no herbs  herb\_V.m.  herb\_P.a.&V.m. | 0,81  -0,05  -0,47  -1,72 | 0,045 \*  > 0,05  > 0,05  > 0,05 | 7,89 | 10,30 % |
| no significant differences:  track, tree cover, shrub cover, herb cover, deadwood | | | | |

Chewing & feeding (attempt) (N = 34)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Estimate** | **p-value** | **edf** | **Deviance explained** |
| pond  non-pond | 2,71 | < 0,001 \*\*\* | 7,80 | 12,3 % |
| shrub\_50-100 %  shrub\_0 %  shrub\_0-50 % | 1,72  -1,40 | < 0,001 \*\*\*  0,015 \* | 7,80 | 14,5 % |
| herb\_V.m.  herb\_herbs  herb\_no herbs  herb\_P.a.  herb\_P.a.&V.m. | 1,99  0,96  0,31  -0,02 | 0,034 \*  > 0,05  > 0,05  > 0,05 | 7,80 | 11,20 % |
| no significant differences:  track, forest aisle, tree layer, tree cover, shrub layer, herb cover, deadwood | | | | |

**Social interaction** (N = 26)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Estimate** | **p-value** | **edf** | **Deviance explained** |
| forest aisle  non-forest aisle | 1,38 | < 0,001 \*\*\* | 6,85 | 10,30 % |
| pond  non-pond | 1,41 | 0,042 \* | 6,85 | 8,97 % |
| shrub\_broad-leaved forest  shrub\_mixed forest  shrub\_coniferous forest  shrub\_no shrubs | -0,69  -1,32  -2,10 | > 0,05  0,016 \*  < 0,001 \*\*\* | 6,85 | 11,50 % |
| shrub\_0-50 %  shrub\_50-100 %  shrub\_0 % | 1,37  1,24 | 0,015 \*  > 0,05 | 6,85 | 10,20 % |
| herb\_herbs  herb\_P.a.&V.m.  herb\_V.m.  herb\_P.a.  herb\_no herbs | 1,31  0,27  0,14  -39,84 | 0,006 \*\*  > 0,05  > 0,05  > 0,05 | 6,93 | 15,10 % |
| deadwood\_25-50 %  deadwood\_0-25 %  deadwood\_0 % | 1,23  0,64 | 0,007 \*\*  0,019 \* | 6,85 | 11,20 % |
| no significant differences:  track, tree layer, tree cover, herb cover | | | | |