**Table S2**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Taxa | df | F | p | Adj. R2 |  RF | AB | COL | COH |
| **N:C** |  |  |  |  |  |  |  |  |
| Herb layer (herbs and grases) | 3, 14 | **39.7** | **< 0.001** | 87 | 0.050 ± 0.004a | 0.057 ± 0.008a | 0.084 ± 0.007b | 0.131 ± 0.008c |
| *Alnus glutinosa* | 3, 7 | ***4.0*** | ***0.059*** | 47 | 0.054 ± 0.010a | 0.068 ± 0.018a | 0.082 ± 0.018 a | 0.115 ± 0.018b |
| *Juniperus communis* | 1, 4 | **20.7** | **0.010** | 79 | 0.028 ± 0.005a |  | 0.060 ± 0.007b |  |
| *Sorbus aucuparia* | 3,5 | **49.6** | **< 0.001** | 94 | 0.036 ± 0.004a | 0.051 ± 0.007 ab | 0.078 ± 0.007bc | 0.119 ± 0.007c |
| *Tanacetum vulgare* | 3, 12 | **13.3** | **< 0.001** | 71 | 0.060 ± 0.009a | 0.055 ± 0.016 a | 0.088 ± 0.014 a | 0.153 ± 0.016b |
| Poaceae | 3, 13 | **12.6** | **< 0.001** | 68 | 0.047 ± 0.006a | 0.064 ± 0.011 ab | 0.089 ± 0.009cb | 0.108 ± 0.011b |
| **P:C** |  |  |  |  |  |  |  |  |
| Herb layer (herbs and grases) | 3, 13 | **6.4** | **0.007** | 50 | 0.005 ± 0.001a | 0.012 ± 0.002b | 0.011 ± 0.002ab | 0.014 ± 0.002b |
| *Alnus glutinosa* |  3, 5 | **7.0** | **0.031** | 69 | 0.003± 0.001a | 0.004± 0.001ab | 0.008± 0.001ab | 0.0100.001b |
| *Tanacetum vulgare* | 3, 11 | ***3.5*** | ***0.052*** | 35 | 0.006 ± 0.002a | 0.014 ± 0.004a | 0.013 ± 0.003a | 0.018 ± 0.004b |
| Poaceae | 3, 11 | **5.7** | **0.013** | 50 | 0.004 ± 0.001a | 0.010 ± 0.002b | 0.008 ± 0.002ab | 0.011 ± 0.002bc |
| **N:P** |  |  |  |  |  |  |  |  |
| Herb layer (herbs and grases) | 3, 13 | **4.1** | **0.029** | 37 | 11.5± 1.2a | 4.7 ± 2.0b | 8.4 ± 1.7ab | 10.4 ± 2.0ab |
| *Alnus glutinosa* |  3, 5 | 3.2 | 0.124 | 45 | 22.7± 3.0a | 16.0± 4.8a | 9.7± 4.8a | 11.3± 4.8a |
| *Tanacetum vulgare* | 3, 11 | **6.8** | **0.007** | 55 | 11.0 ± 1.1a | 3.8 ± 1.7b | 6.7 ± 1.6ab | 9.9 ± 1.7a |
| Poaceae | 3, 11 | ***3.4*** | ***0.058*** | 33 | 13.1 ± 1.2ac | 6.8 ± 2.0b | 10.7 ± 1.8bc | 10.6 ± 2.0bc |