| **Model** | **Effect** | **DF** | **denDF** | **P value** | **F value** |
| --- | --- | --- | --- | --- | --- |
| %C | (Intercept) | 1 | 76 | **<0.001** | 102,617.179 |
| %C | site | 4 | 76 | 0.515 | 0.822 |
| %C | year | 1 | 76 | **<0.001** | 126.015 |
| %C | site:year | 4 | 76 | 0.831 | 0.368 |
| %N | (Intercept) | 1 | 76 | **<0.001** | 7,678.996 |
| %N | site | 4 | 76 | **0.017** | 3.220 |
| %N | year | 1 | 76 | 0.45 | 0.577 |
| %N | site:year | 4 | 76 | 0.267 | 1.328 |
| %P | (Intercept) | 1 | 77 | **<0.001** | 955.522 |
| %P | site | 4 | 77 | **0.031** | 2.803 |
| %P | year | 1 | 77 | **<0.001** | 19.129 |
| %P | site:year | 4 | 77 | 0.346 | 1.137 |
| C:N | (Intercept) | 1 | 76 | **<0.001** | 7,677.089 |
| C:N | site | 4 | 76 | **0.01** | 3.607 |
| C:N | year | 1 | 76 | **<0.001** | 14.639 |
| C:N | site:year | 4 | 76 | 0.521 | 0.813 |
| C:P | (Intercept) | 1 | 75 | **<0.001** | 1,621.479 |
| C:P | site | 4 | 75 | **0.008** | 3.704 |
| C:P | year | 1 | 75 | **<0.001** | 37.392 |
| C:P | site:year | 4 | 75 | 0.718 | 0.524 |
| N:P | (Intercept) | 1 | 75 | **<0.001** | 1,841.388 |
| N:P | site | 4 | 75 | 0.105 | 1.989 |
| N:P | year | 1 | 75 | **<0.001** | 27.275 |
| N:P | site:year | 4 | 75 | 0.725 | 0.515 |
| %BSI | (Intercept) | 1 | 74 | **<0.001** | 864.031 |
| %BSI | site | 4 | 74 | **0.004** | 4.198 |
| %BSI | year | 1 | 74 | **<0.001** | 68.395 |
| %BSI | site:year | 4 | 74 | 0.424 | 0.979 |
| SLA | (Intercept) | 1 | 78 | **<0.001** | 710.286 |
| SLA | site | 4 | 78 | 0.13 | 1.835 |
| SLA | year | 1 | 78 | 0.707 | 0.142 |
| SLA | site:year | 4 | 78 | 0.402 | 1.020 |