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| 2016 Initial Needle Litter |
|  | **Healthy Spruce** | **Impacted Spruce** | **Lodgepole** |
| Carbon (%) | 45.9 (±0.2) | 51.8 (±0.1) | 53.7 (±0.1) |
| Nitrogen (%) | 0.7 (±0) | 0.8 (±0) | 0.9 (±0) |
| C:N | 62.7 (±1.7)  | 68.2 (±0.2) | 61.6 (±1.1) |
| 2018 Decomposed Needle Litter |
|  | **Healthy Spruce** | **Impacted Spruce** | **Lodgepole** |
| Carbon (%) | 38.9 (±15.3) | 48.6 (±0.6) | 51.9 (±0.7) |
| Nitrogen (%) | 0.9 (±0.3) | 0.9 (±0) | 0.7 (±0.1) |
| C:N | 45.1 (±2.6) | 52.2 (±1.1) | 72.4 (±15.4) |

Results are based on an air-dried basis.

Averages plus or minus standard deviation in parenthesis (n=3).