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| --- | --- | --- | --- | --- | --- | --- |
| Forest Types | Seasons | BR (μg CO2–C g-1 soil h-1) | Cmic/Nmic ratio | Cmic/Corg ratio | Nmic/Ntotal ratio | *q*CO2 |
| Black pine | Spring | 0,67±0,4a | 6,37±1,10b | 0,84±0,69b | 1,97±1,10a | 2,63±1,34a |
|  | Summer | 1,37±0,50c | 4,73±1,67a | 1,35±0,53c | 5,93±1,91b | 2,51±0,83a |
|  | Autumn | 1,43±0,52c | 5,09±1,64a | 1,48±0,50c | 5,41±1,77b | 2,22±1,48a |
|  | Winter | 1,05±0,30b | 6,58±3,43a | 0,55±0,23a | 2,34±0,70a | 4,75±1,90b |
| Cedar | Spring | 1,28±0,86a | 3,05±2,74a | 1,17±0,84ab | 4,27±2,58a | 2,53±0,79b |
|  | Summer | 1,19±0,89a | 3,65±3,09a | 1,45±1,0b | 5,98±3,73a | 1,88±0,34a |
|  | Autumn | 1,37±0,75a | 3,02±2,3a | 1,54±0,88b | 4,70±2,50a | 1,74±0,24a |
|  | Winter | 1,92±0,98b | 3,55±2,7a | 0,89±0,57a | 5,79±3,91a | 4,99±0,94c |
| Beech | Spring | 0,82±0,25a | 5,77±3,21b | 1,20±0,48a | 4,08±1,60a | 1,55±0,29a |
|  | Summer | 1,22±0,39b | 4,81±1,17ab | 1,59±0,64b | 6,25±2,42b | 1,94±0,52b |
|  | Autumn | 0,97±0,34a | 4,68±1,15a | 1,44±0,50ab | 4,53±1,57a | 1,43±0,37a |
|  | Winter | 1,65±0,47c | 5,00±1,26ab | 1,30±0,45a | 5,91±1,84b | 3,20±0,80c |

Table 3. Basal respiration, Cmic/Nmic ratio, Cmic/Corg ratio, Nmic/Ntotal ratio and metabolic quotient in the mineral soil from different forest types and seasons. Averages for n=30 samples, ± standard deviation is given.

Values shown by different upper case letter among the tree species are significantly different (P≤0.05).