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| **Supplemental Table 3** Soil chemical and microbial properties associated with arthropod trapping sites across a five year chronosequence of insect induced tree mortality |
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| Time since tree mortality (yrs) | Soil moisture |  Total N | NH4+ | Total C | DOC | pH | Micro. biomass |
| (%H2O) | (%) | (ppm) | (%) | (mg/g dry soil) |   | (mg C/g dry soil) |
| 0 | 4.29 | ± (0.58) | 0.11 | ± (0.01) | 0.30 | ± (0.03) | 2.57 | ± (0.29) | 0.06 | ± (0.01) | 6.26 | ± (0.07) | 0.24 | ± (0.02) |
| 1 | 4.59 | ± (1.35) | 0.07 | ± (0.01) | 0.43 | ± (0.11) | 1.85 | ± (0.22) | 0.06 | ± (0.01) | 6.39 | ± (0.11) | 0.19 | ± (0.02) |
| 2 | 5.08 | ± (1.09) | 0.13 | ± (0.03) | 0.61 | ± (0.12) | 2.93 | ± (0.59) | 0.10 | ± (0.03) | 6.34 | ± (0.16) | 0.28 | ± (0.04) |
| 3 | 5.21 | ± (0.68) | 0.08 | ± (0.01) | 0.28 | ± (0.05) | 2.08 | ± (0.25) | 0.06 | ± (0.01) | 6.64 | ± (0.13) | 0.21 | ± (0.02) |
| 4 | 7.01 | ± (1.68) | 0.10 | ± (0.01) | 0.36 | ± (0.10) | 2.61 | ± (0.34) | 0.07 | ± (0.01) | 6.42 | ± (0.13) | 0.26 | ± (0.03) |
| *P*-value | > 0.10 | 0.06 | > 0.10 | > 0.10 | > 0.10 | > 0.10 | > 0.10 |
| Soil moisture was measured via gravimetric dry-down, total soil N and C were determined by combustion, NH4+ and DOC were extraced with K2SO4 , microbial biomass was determined using fumigation proceedures. |
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