**Appendix 1.** Number of individuals for each arthropod species collected in three habitats of the boreal mixedwood forest. De: deciduous dominated, Sb: black spruce dominated, Sw: white spruce dominated, 0: surface trap, 1: deep trap.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Species** | **De0** | **De1** | **Sb0** | **Sb1** | **Sw0** | **Sw1** | **Sum** |
| Carabidae | *Calathus advena* (LeConte) | 0 | 1 | 0 | 0 | 31 | 37 | 69 |
| Carabidae | *Trechus chalybeus* Dejean | 22 | 20 | 0 | 1 | 3 | 20 | 66 |
| Carabidae | *Pterostichus adstrictus* Eschscholtz | 13 | 11 | 1 | 0 | 10 | 28 | 63 |
| Carabidae | *Stereocerus haematopus* (Dejean) | 1 | 4 | 3 | 7 | 26 | 17 | 58 |
| Carabidae | *Agonum retractum* LeConte | 10 | 30 | 0 | 0 | 2 | 8 | 50 |
| Carabidae | *Calathus ingratus* Dejean | 14 | 15 | 0 | 2 | 1 | 13 | 45 |
| Carabidae | *Patrobus foveocollis* Eschscholtz | 3 | 13 | 0 | 0 | 3 | 12 | 31 |
| Carabidae | *Carabus chamissonis* Fisher von Waldheim | 4 | 3 | 0 | 7 | 0 | 4 | 18 |
| Carabidae | *Pterostichus punctatissimus* (Randall) | 0 | 0 | 5 | 4 | 1 | 6 | 16 |
| Carabidae | *Pterostichus brevicornis* (Kirby) | 0 | 0 | 0 | 1 | 4 | 8 | 13 |
| Carabidae | *Platynus decentis* (Say) | 2 | 7 | 0 | 0 | 0 | 3 | 12 |
| Carabidae | *Pterostichus pensylvanicus* LeConte | 4 | 1 | 0 | 0 | 0 | 0 | 5 |
| Carabidae | *Trechus apicalis* Motschulsky | 0 | 4 | 0 | 1 | 0 | 0 | 5 |
| Carabidae | *Calosoma frigidum* Kirby | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Carabidae | *Notiophilus borealis* T.W. Harris | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Carabidae | *Synuchus impunctatus* (Say) | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Staphylinidae | unidentified Aleocharinae | 98 | 64 | 2 | 4 | 29 | 18 | 215 |
| Staphylinidae | *Tachinus frigidus* Erichson | 36 | 37 | 3 | 2 | 43 | 58 | 179 |
| Staphylinidae | *Acidota quadrata* (Zetterstedt) | 109 | 28 | 2 | 15 | 14 | 6 | 174 |
| Staphylinidae | *Quedius velox* Smetana | 11 | 15 | 1 | 4 | 28 | 84 | 143 |
| Staphylinidae | *Ischnosoma splendidum* (Gravenhorst) | 41 | 26 | 1 | 1 | 4 | 4 | 77 |
| Staphylinidae | *Quedius rusticus* Smetana | 32 | 10 | 0 | 1 | 4 | 14 | 61 |
| Staphylinidae | *Tachinus elongatus* Gyllenhal | 46 | 9 | 0 | 0 | 1 | 1 | 57 |
| Staphylinidae | *Eucnecosum brunnescens* (Sahlberg) | 14 | 4 | 19 | 14 | 1 | 1 | 53 |
| Staphylinidae | *Quedius brunnipennis* Mannerheim | 10 | 4 | 4 | 10 | 9 | 11 | 48 |
| Staphylinidae | *Lypoglossa franclemonti* Hoebeke | 25 | 9 | 2 | 0 | 2 | 2 | 40 |
| Staphylinidae | *Mycetoporus americanus* Erichson | 17 | 7 | 2 | 0 | 10 | 2 | 38 |
| Staphylinidae | *Dinothenarus pleuralis* (LeConte) | 21 | 11 | 0 | 1 | 2 | 3 | 38 |
| Staphylinidae | *Lordithon fungicola* Campbell | 23 | 1 | 1 | 0 | 2 | 0 | 27 |
| Staphylinidae | *Tachinus fumipennis* (Say) | 18 | 6 | 0 | 0 | 0 | 0 | 24 |
| Staphylinidae | *Micropeplus laticollis* Mäklin | 9 | 3 | 0 | 0 | 5 | 4 | 21 |
| Staphylinidae | *Pseudopsis sagitta* Herman | 11 | 7 | 0 | 0 | 0 | 0 | 18 |
| Staphylinidae | *Quedius labradorensis* Smetana | 8 | 8 | 0 | 0 | 2 | 0 | 18 |
| Staphylinidae | *Ischnosoma fimbriatum* Campbell | 2 | 4 | 4 | 2 | 3 | 1 | 16 |
| Staphylinidae | *Quedius impar* Smetana | 5 | 6 | 0 | 2 | 1 | 1 | 15 |
| Staphylinidae | *Gabrius brevipennis* (Horn) | 4 | 5 | 0 | 0 | 1 | 2 | 12 |
| Staphylinidae | *Lathrobium washingtoni* Casey | 3 | 5 | 0 | 1 | 0 | 3 | 12 |
| Staphylinidae | *Bolitobius horni* Campbell | 5 | 5 | 0 | 0 | 0 | 0 | 10 |
| Staphylinidae | *Scaphium castanipes* Kirby | 3 | 1 | 0 | 0 | 2 | 4 | 10 |
| Staphylinidae | *Lypoglossa angularis* Mäklin | 0 | 0 | 0 | 0 | 4 | 5 | 9 |
| Staphylinidae | *Stenus austini* Casey | 3 | 3 | 2 | 0 | 1 | 0 | 9 |
| Staphylinidae | *Quedius frigidus* Smetana | 1 | 0 | 4 | 0 | 2 | 1 | 8 |
| Staphylinidae | *Mycetoporus smetanai* Campbell | 0 | 1 | 0 | 0 | 1 | 2 | 4 |
| Staphylinidae | *Tachinus borealis* Campbell | 0 | 0 | 2 | 1 | 0 | 0 | 3 |
| Staphylinidae | *Quedius caseyi* Scheerpeltz | 0 | 0 | 0 | 0 | 1 | 2 | 3 |
| Staphylinidae | *Gabrius picipennis* (Mäklin) | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| Staphylinidae | *Tachinus quebecensis* Robert | 0 | 1 | 0 | 0 | 0 | 1 | 2 |
| Staphylinidae | *Tachyporus borealis* Campbell | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| Staphylinidae | *Bisnius tereus* Smetana | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Staphylinidae | *Lathrobium fauveli* Duvivier | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Staphylinidae | *Lathrobium sollicitum* (Fall) | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Staphylinidae | *Megarthrus sinuaticollis* Boisduval & Lacordaire | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Staphylinidae | *Olophrum rotundicolle* (Sahlberg) | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Staphylinidae | *Quedius brevipennis* Motschulsky | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Staphylinidae | *Quedius fulvicollis* (Stephens) | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Staphylinidae | *Quedius simulator* Smetana | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Staphylinidae | *Stenus immarginatus* Mäklin | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Lycosidae | *Pardosa uintana* Gertsch | 0 | 0 | 30 | 18 | 0 | 0 | 48 |
| Linyphiidae | *Zornella armata* (Banks) | 3 | 1 | 0 | 1 | 12 | 9 | 26 |
| Gnaphosidae | *Gnaphosa microps* Holm | 1 | 0 | 13 | 3 | 0 | 0 | 17 |
| Linyphiidae | *Improphantes complicatus* (Emerton) | 2 | 2 | 1 | 1 | 7 | 4 | 17 |
| Linyphiidae | *Allomengea dentisetis* (Grübe) | 9 | 2 | 3 | 0 | 1 | 0 | 15 |
| Linyphiidae | *Bathyphantes pallidus* (Banks) | 8 | 5 | 0 | 0 | 0 | 0 | 13 |
| Lycosidae | *Pardosa mackenziana* (Keyserling) | 5 | 3 | 0 | 1 | 1 | 0 | 10 |
| Linyphiidae | *Diplocentria bidentata* (Emerton) | 5 | 0 | 1 | 2 | 0 | 1 | 9 |
| Amaurobiidae | *Cybaeopsis euopla* (Bishop & Crosby) | 5 | 0 | 0 | 0 | 1 | 0 | 6 |
| Gnaphosidae | *Haplodrassus hiemalis* (Emerton) | 2 | 1 | 2 | 1 | 0 | 0 | 6 |
| Linyphiidae | *Walckenaeria castanea* (Emerton) | 1 | 0 | 1 | 0 | 4 | 0 | 6 |
| Linyphiidae | *Sciastes truncatus* (Emerton) | 0 | 0 | 3 | 0 | 1 | 1 | 5 |
| Lycosidae | *Pardosa moesta* Banks | 2 | 1 | 2 | 0 | 0 | 0 | 5 |
| Thomisidae | *Xysticus canadensis* Gertsch | 1 | 0 | 2 | 1 | 1 | 0 | 5 |
| Linyphiidae | *Walckenaeria atrotibialis* (O. Pikard-Cambridge) | 3 | 0 | 1 | 0 | 0 | 0 | 4 |
| Linyphiidae | *Walckenaeria fallax* Millidge | 0 | 0 | 3 | 0 | 1 | 0 | 4 |
| Lycosidae | *Pardosa hyperborea* (Thorell) | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| Linyphiidae | *Agyneta olivacea* (Emerton) | 2 | 0 | 1 | 0 | 0 | 0 | 3 |
| Linyphiidae | *Hybauchenidium gibbosum* (Sørensen) | 2 | 1 | 0 | 0 | 0 | 0 | 3 |
| Linyphiidae | *Lepthyphantes alpinus* (Emerton) | 1 | 0 | 0 | 0 | 1 | 1 | 3 |
| Linyphiidae | *Walckenaeria directa* (O. Pikard-Cambridge) | 0 | 2 | 1 | 0 | 0 | 0 | 3 |
| Thomisidae | *Xysticus emertoni* Keyserling | 2 | 0 | 1 | 0 | 0 | 0 | 3 |
| Gnaphosidae | *Gnaphosa parvula* Banks | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| Gnaphosidae | *Gnaphosa borea* Kulczyn’ski | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| Linyphiidae | *Hilaira herniosa* (Thorell) | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| Linyphiidae | *Pocadicnemis americana* Millidge | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| Linyphiidae | *Walckenaeria tricornis* (Emerton) | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| Liocranidae | *Agroeca ornata* Banks | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| Amaurobiidae | *Amaurobius borealis* Emerton | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Araneidae | *Hypsosinga rubens* (Hentz) | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Gnaphosidae | *Gnaphosa muscorum* (L.Koch) | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Linyphiidae | *Agyneta allosubtilis* Loksa | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Linyphiidae | *Helophora insignis* (Blackwall) | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Linyphiidae | *Meioneta simplex* (Emerton) | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Linyphiidae | *Microneta viaria* (Blackwall) | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Linyphiidae | *Oreonetides rotundus* (Emerton) | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Linyphiidae | *Oreonetides vaginatus* (Thorell) | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Linyphiidae | *Pityohyphantes subarcticus* Chamberlin & Ivie | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Linyphiidae | *Scotinotylus sacer* (Crosby) | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Linyphiidae | *Sisicottus montanus* (Emerton) | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Linyphiidae | *Walckenaeria karpinskii* (O. Pikard-Cambridge) | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Linyphiidae | *Walckenaeria auranticeps* (Emerton) | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lycosidae | *Alopecosa aculeata* (Clerck) | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Lycosidae | *Pardosa fuscula* (Thorell) | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Theridiidae | *Robertus fuscus* (Emerton) | 1 | 0 | 0 | 0 | 0 | 0 | 1 |