

Yuan, Z., Gazol, A., Wang, X., Xing, D., Lin, F., Bai, X., Zhao, Y., Li, B. and Hao, Z. 2012. What happens below the canopy? Direct and indirect influences of the dominant species on forest vertical layers. – Oikos 121: 1145–1153.

Appendix 1

Classification of species in vertical layers. The number of individuals in each 20 × 20 plot and the mean number of individuals per plot (± SD) are show. Nomenclature follows Flora of China (1984).

Vertical layer	Number of presences	Mean number of individuals (± SD)
Dominant competitor		
<i>Pinus koraiensis</i>	567	3.92 ± 2.64
Canopy layer		
<i>Ulmus japonica</i>	416	1.76 ± 2.13
<i>Quercus mongolica</i>	480	1.48 ± 1.26
<i>Tilia amurensis</i>	605	4.23 ± 2.52
<i>Abies holophylla</i>	3	0.0 ± 0.07
<i>Populus koreana</i>	4	0.0 ± 0.11
<i>Populus ussuriensis</i>	35	0.06 ± 0.26
<i>Tilia mandshurica</i>	65	0.68 ± 2.95
Sub-canopy layer		
<i>Acer mono</i>	622	10.51 ± 8.12
<i>Betula costata</i>	14	0.03 ± 0.18
<i>Populus davidiana</i>	24	0.05 ± 0.27
<i>Betula platyphylla</i>	59	0.16 ± 0.61
<i>Ulmus laciniata</i>	77	0.27 ± 0.98
<i>Abies nephrolepis</i>	3	0.00 ± 0.10
<i>Prunus padus</i>	99	0.78 ± 3.05
<i>Maackia amurensis</i>	293	1.19 ± 1.96
<i>Phellodendron amurense</i>	48	0.10 ± 0.36
<i>Acer mandshuricum</i>	117	0.38 ± 1.06
<i>Acer triflorum</i>	138	0.44 ± 1.14
<i>Pyrus ussuriensis</i>	45	0.11 ± 0.46
<i>Sorbus alnifolia</i>	15	0.04 ± 0.40
<i>Acer tegmentosum</i>	258	1.10 ± 1.99
<i>Acer pseudo-sieboldianum</i>	557	7.83 ± 6.64
<i>Sorbus pohuashanensis</i>	1	0.00 ± 0.04
<i>Malus baccata</i>	106	0.24 ± 0.61
<i>Syringa reticulata</i>	340	2.47 ± 4.47
Shrub layer		
<i>Acer ginnala</i>	66	0.22 ± 0.86
<i>Crataegus maximowiczii</i>	56	0.2 ± 0.86
<i>Rhamnus ussuriensis</i>	83	0.16 ± 0.46
<i>Deutzia parviflora</i>	1	0.00 ± 0.04
<i>Aralia elata</i>	8	0.02 ± 0.18

<i>Acer barbinerve</i>	524	5.93 ± 5.44
<i>Acanthopanax senticosus</i>	20	0.06 ± 0.38
<i>Viburnum burejaeticum</i>	15	0.03 ± 0.21
<i>Cerasus maximowiczii</i>	44	0.08 ± 0.30
<i>Corylus mandshurica</i>	605	12.3 ± 8.85
<i>Euonymus alatus</i>	30	0.05 ± 0.25
<i>Euonymus macropterus</i>	6	0.01 ± 0.15
<i>Euonymus pauciflorus</i>	34	0.07 ± 0.32
<i>Lonicera chrysantha</i>	23	0.04 ± 0.22
<i>Philadelphus schrenkii</i>	250	0.75 ± 1.40
<i>Rhamnus davurica</i>	20	0.03 ± 0.19
<i>Rhamnus diamantiaca</i>	2	0.00 ± 0.06
<i>Ribes mandshuiricum</i>	1	0.00 ± 0.04
<i>Rosa davurica</i>	1	0.00 ± 0.04
<i>Sambucus williamsii</i>	16	0.03 ± 0.20
<i>Sorbaria sorbifolia</i>	3	0.00 ± 0.10
<i>Viburnum sargentii</i>	30	0.07 ± 0.40
<i>Actinidia kolomikta</i>	1	0.00 ± 0.04
<i>Vitis amurensis</i>	2	0.00 ± 0.06
