

Supplemental data for

“Vegetation Patterns and Species Diversity along Elevational and Disturbance Gradients in the Baihua Mountain Reserve, Beijing, China” by Jin-Tun Zhang, Bin Xu, and Min Li, published in *Mountain Research and Development* 33(2), 2013. (See <http://www.bioone.org/toc/mred/33/2>)

TABLE S1. Characteristics of communities identified by TWINSPAN in the Baihua Mountain Reserve, Beijing, China.

Community type	Total community cover (%)	Tree layer cover (%)	Shrub layer cover (%)	Herb layer cover (%)	Dominant species and common species		
					Tree layer	Shrub layer	Herb layer
I	85	–	50	40	–	<i>Spiraea pubescens, Viburnum opulus var. calvescens, Dasiphora davurica, Celosia argentea</i>	<i>Carex siderosticha, C. humilis, Sanguisorba officinalis, Iris tectorum, Gentiana macrophylla</i>
II	90	70	40	40	<i>Betula dahurica, Betula platyphyllo, Quercus wutaishanica, Salix pseudotangii</i>	<i>Spiraea trilobata, Corylus heterophylla, Celosia argentea</i>	<i>Calamagrostis arundinacea, Cleistogenes sp., Carex siderosticha, C. humilis, Iris tectorum, Veratrum nigrum</i>
III	95	85	40	50	<i>Larix principis-rupprechtii, Betula platyphyllo, Salix pseudotangii</i>	<i>Abelia biflora, Viburnum opulus var. calvescens, Rosa bella, Lonicera maackii, Euonymus alatus</i>	<i>Sanguisorba officinalis, Delphinium grandiflorum, Aconitum soongaricum, Trientalis europaea, Carex lanceolata</i>
IV	90	75	35	40	<i>Betula platyphyllo, Larix principis-rupprechtii, Salix pseudotangii</i>	<i>Abelia biflora, Spiraea trilobata, Viburnum opulus var. calvescens</i>	<i>Sanguisorba officinalis, Lithospermum erythrorhizon, Clematis sp., Geranium sp., Carex lanceolata, Cleistogenes sp.</i>
V	85	70	35	45	<i>Quercus wutaishanica, Larix principis-rupprechtii, Betula dahurica, Populus davidiana</i>	<i>Spiraea trilobata, Deutzia hamata, Syringa microphylla, Ostryopsis davidiana, Indigofera bungeana</i>	<i>Carex lanceolata, Saussurea nivea, Carex siderosticha, Iris ruthenica, Sanguisorba officinalis</i>
VI	90	70	45	35	<i>Populus davidiana, Larix principis-rupprechtii, Pinus tabuliformis, Quercus wutaishanica</i>	<i>Lespedeza bicolor, Spiraea trilobata, Ostryopsis davidiana, Ribes mandshuricum</i>	<i>Carex lanceolata, Maianthemum bifolium, Calamagrostis arundinacea, Carex siderosticha, Trientalis europaea</i>
VII	75	60	40	30	<i>Pinus tabuliformis, Juglans mandshurica, Quercus wutaishanica, Salix pseudotangii</i>	<i>Spiraea trilobata, Lespedeza bicolor, Rosa xanthina, Hippophae rhamnoides</i>	<i>Carex lanceolata, Artemisia gmelinii, Thalictrum petaloideum, Calamagrostis arundinacea, Agrimonia pilosa</i>

VIII	70	50	40	50	<i>Juglans mandshurica</i> , <i>Prunus davidiana</i> , <i>Pinus tabuliformis</i> , <i>Fraxinus rhynchophylla</i>	<i>Spiraea trilobata</i> , <i>Lespedeza bicolor</i> , <i>Aster altaicus</i>	<i>Carex lanceolata</i> , <i>Artemisia gmelinii</i> , <i>A. lavendulaefolia</i> , <i>Potentilla discolor</i> , <i>Agrimonia pilosa</i> , <i>Calamagrostis arundinacea</i>
IX	85	–	55	35	–	<i>Hippophae rhamnoides</i> , <i>Spiraea trilobata</i> , <i>Lespedeza bicolor</i> , <i>L. davurica</i> , <i>Aster altaicus</i>	<i>Carex lanceolata</i> , <i>Artemisia lavendulaefolia</i> , <i>Potentilla discolor</i> , <i>Agrimonia pilosa</i>
X	75	–	45	40	–	<i>Prunus armeniaca</i> , <i>Spiraea trilobata</i> , <i>Ostryopsis davidiana</i> , <i>Syringa microphylla</i> , <i>Carpinus turczaninowii</i>	<i>Carex lanceolata</i> , <i>Artemisia brachyloba</i> , <i>Myriprinos dioica</i> , <i>Artemisia lavendulaefolia</i> , <i>Calamagrostis arundinacea</i>
XI	80	–	50	40	–	<i>Vitex negundo</i> var. <i>heterophylla</i> , <i>Zizyphus jujuba</i> var. <i>spinosa</i> , <i>Berberis amurensis</i> , <i>Prunus armeniaca</i> , <i>Lespedeza bicolor</i>	<i>Calamagrostis arundinacea</i> , <i>Carex lanceolata</i> , <i>Artemisia gmelinii</i> , <i>A. lavendulaefolia</i> , <i>Sabina procumbens</i>
XII	90	–	–	90	–	–	<i>Carex lanceolata</i> , <i>Sanguisorba officinalis</i> , <i>Polygonum viviparum</i> , <i>Leontopodium leontopodioides</i> , <i>Calamagrostis arundinacea</i> , <i>Artemisia lavendulaefolia</i> , <i>A. japonica</i>

Note:

I Community *Spiraea pubescens*

II Community *Betula dahurica* + *Betula platyphylla*

III Community *Larix principis-rupprechtii*

IV Community *Betula platyphylla*

V Community *Quercus wutaishanica*

VI Community *Populus davidiana* + *Larix principis-rupprechtii*

VII Community *Pinus tabuliformis*

VIII Community *Juglans mandshurica*

IX Community *Hippophae rhamnoides* + *Spiraea trilobata*

X Community *Prunus armeniaca*

XI Community *Vitex negundo* var. *heterophylla*

XII Community *Carex lanceolata* + *Sanguisorba officinalis* + *Polygonum viviparum*