

Table S2: Overview of the most abundant species by LAI (LAI>0.005 m²/m²) of the forest understory for all campaigns. Species identity and LAI in m²/m² are given for the different forest management treatments in the different exploratories. The value is an average of the eight subplots (4 control and 4 roof) at the exploratories Schorfheide-Chorin (SEW), the Hainich-Dün (HEW) and the Schwäbische Alb (AEW).

Conifer intensive managed				Spring 2012 Beech managed				Beech unmanaged			
Explor.	Genus	Species	(m ² /m ²)	Explor.	Genus	Species	(m ² /m ²)	Explor.	Genus	Species	(m ² /m ²)
SEW	Rubus	idaeus	0.014	SEW	Rubus	idaeus	0.006	SEW	Fagus	sylvatica	<0.005
	Calamagrostis	epigejos	0.060		Oxalis	acetosella	0.058		Calamagrostis	epigejos	<0.005
	Dryopteris	dilatata	0.047								
HEW	Hordelymus	europaeus	0.234	HEW	Anemone	nemorosa	0.280	HEW	Anemone	nemorosa	0.600
	Oxalis	acetosella	0.071		Stelaria	holostea	0.036		Acer	platanoides (S)	0.025
	Galium	odoratum	0.031		Galium	odoratum	0.007				
AEW	Mercurialis	perennis	0.070	AEW	Anemone	nemorosa	0.100	AEW	Dentaria	bulbifera	0.028
	Oxalis	acetosella	0.061		Mercurialis	perennis	0.005		Galium	odoratum	0.019
	Milium	effusum ssp. effusum	0.051		Milium	effusum ssp. effusum	0.160		Brachypodium	sylvaticum ssp. sylvaticum	0.008
Conifer intensive managed				Late summer 2012 Beech (managed)				Beech (unmanaged)			
Explor.	Genus	Species	(m ² /m ²)	Explor.	Genus	Species	(m ² /m ²)	Explor.	Genus	Species	(m ² /m ²)
SEW	Rubus	idaeus	0.020	SEW	Rubus	idaeus	0.013	SEW	Fagus	Sylvatica	<0.005
	Calamagrostis	epigejos	0.023		Oxalis	acetosella	0.027		Calamagrostis	epigejos	<0.005
	Dryopteris	dilatata	<0.005		Fagus	sylvatica	0.007				
HEW	Hordelymus	europaeus	0.016	HEW	Fagus	sylvatica	0.014	HEW	Fagus	Sylvatica	0.012
	Oxalis	acetosella	0.052		Acer	Spec.	<0.005		Acer	Spec.	<0.005
	Galium	odoratum	<0.005		Melica	uniflora	0.008				
AEW	Impatiens	parviflora	0.015	AEW	Galium	odoratum	<0.005	AEW			
	Mercurialis	perennis	0.023		Acer	Spec.	0.256		Fagus	Sylvatica	0.210
	Oxalis	acetosella	0.030		Mercurialis	perennis	0.013		Brachypodium	sylvaticum ssp. sylvaticum	0.154
AEW	Milium	effusum ssp. effusum	0.021	AEW	Milium	effusum ssp. effusum	0.149	AEW	Galium	odoratum	0.050
	Fragaria	vesca	0.038		Fagus	sylvatica	0.173		Oxalis	acetosella	0.018
	Rubus	idaeus	0.053								

Conifer intensive managed				Early summer 2013 Beech (managed)				Beech (unmanaged)			
Explor.	Genus	Species	(m ² /m ²)	Explor.	Genus	Species	(m ² /m ²)	Explor.	Genus	Species	(m ² /m ²)
SEW	Rubus	idaeus	0.500	SEW	Rubus	idaeus	0.162	SEW	Fagus	Sylvatica	<0.005
	Calamagrostis	epigejos	0.071		Oxalis	acetosella	0.238		Calamagrostis	epigejos	<0.005
	Dryopteris	dilatata	0.067		Fagus	sylvatica	0.140				
HEW	Hordelymus	europaeus	0.390	HEW	Fagus	sylvatica	0.156	HEW	Fagus	Sylvatica	0.056
	Oxalis	acetosella	0.341		stellaria	holostea	0.103		Acer	Spec.	0.111
	Galium	odoratum	0.174		Galium	odoratum	0.066		Anemone	nemorosa	0.511
AEW	Mercurialis	perennis	0.408	AEW	Acer	Spec.	0.168	AEW	Fagus	Sylvatica	0.184
	Galium	odoratum	0.111		Galium	odoratum	0.137		Brachypodium	sylvaticum ssp. sylvaticum	0.064
	Fragaria	vesca	0.090		Milium	effusum ssp. effusum	0.193		Galium	odoratum	0.133
	Rubus	idaeus	0.226		Fagus	sylvatica	0.182				
Conifer intensive managed				Late summer 2013 Beech (managed)				Beech (unmanaged)			
Explor.	Genus	Species	(m ² /m ²)	Explor.	Genus	Species	(m ² /m ²)	Explor.	Genus	Species	(m ² /m ²)
SEW	Rubus	idaeus	0.680	SEW	Rubus	idaeus	0.110	SEW	Fagus	Sylvatica	<0.005
	Calamagrostis	epigejos	0.115		Oxalis	acetosella	0.200		Calamagrostis	epigejos	<0.005
	Dryopteris	dilatata	0.059		Fagus	sylvatica	0.160				
HEW	Hordelymus	europaeus	0.188	HEW	Fagus	sylvatica	0.260	HEW	Fagus	Sylvatica	0.160
	Oxalis	acetosella	0.250		Acer	Spec.	0.071		Acer	Spec.	0.080
	Galium	odoratum	0.073		Melica	uniflora	0.029				
AEW	Impatiens	parviflora	0.260	AEW				AEW			
	Mercurialis	perennis	0.300		Acer	Spec.	0.310		Fagus	Sylvatica	0.220
	Oxalis	acetosella	0.078		Mercurialis	perennis	0.046		Brachypodium	sylvaticum ssp. sylvaticum	0.060
	Milium	effusum ssp. effusum	0.084		Milium	effusum ssp. effusum	0.120				
	Fragaria	vesca	0.062		Fagus	sylvatica	0.046				
	Rubus	idaeus	0.160								

