

Updated GEST catalogue						Legend to colour and font code	
LIFE Peat Restore						Red in column "GEST-Type"	New GEST-Type
						Font size in "Occuring Plant Species"	Frequency (qualitatively)
						Blue font	New vegetation type (not included in the vegetation form-concept)
						Red font	Extrapolated from other GEST
						Bold in columns "CO2/CH4 emissions/GWP"	Values used in Peat Restore
						Purple font	Data without considering wood biomass, partly extrapolated from other GEST
[Value] in columns "CO2/CH4 emissions/GWP"	Data considering wood biomass						
GEST-Type / (corresponding Vegetation form)	Occuring Plant Species	Water level	CO ₂ emissions (t CO ₂ -eq./ha/year)	CH ₄ emissions (t CO ₂ -eq./ha/year)	GWP estimate (t CO ₂ eq./ha/year)	Aim/remarks	number of references
Open Peatland areas (Unused)							
Moderately moist (forb) meadows <i>Cirsium oleraceum-Arrhenatherum elatius</i> -community <i>Molinia caerulea-Daucus carota-Deschampsia cespitosa</i> -community <i>Cirsium oleraceum-Urtica dioica</i> -community <i>Phragmites australis-Aegopodium podagraria-Urtica dioica</i> -community	Calamagrostis epigejos , Rubus caesius , <i>Aegopodium podagraria</i> , <i>Agrimonia eupatoria</i> , <i>Agrostis tenuis</i> , <i>Alchemilla</i> spp., <i>Anthoxanthum odoratum</i> , <i>Anthriscus sylvestris</i> , <i>Briza media</i> , <i>Carex hartmanii</i> , <i>C. nigra</i> , <i>Cirsium oleraceum</i> , <i>Cynosurus cristatus</i> , <i>Dactylis glomerata</i> , <i>Deschampsia cespitosa</i> , <i>Festuca rubra</i> , <i>Filipendula ulmaria</i> , <i>Gallium album</i> , <i>G. boreale</i> , <i>G. uliginosum</i> , <i>Geranium palustre</i> , <i>Geum rivale</i> , <i>Knaulia arvensis</i> , <i>Leontodon hispidus</i> , <i>Listera ovata</i> , <i>Luzula campestris</i> , <i>Pimpinella saxifraga</i> , <i>Phleum pratense</i> , <i>Plantago lanceolata</i> , <i>Platanthera bifolia</i> , <i>Poa pratensis</i> , <i>Polygala vulgaris</i> , <i>Prunella vulgaris</i> , <i>Ranunculus auricomus</i> , <i>Taraxacum officinale</i> , <i>Trifolium repens</i>	2+	20.0	0.0	20.0	Gapfilling extrapolated from moderately moist grassland	COUWENBERG et al. 2011
Moderately moist/dry bog heath	Calluna vulgaris , Pleurozium schreberii , <i>Agrostis capillaris</i> , <i>Betula pendula</i> , <i>Salix cinerea</i>	2+/2-	No data	No data	No data	Gapfilling New GEST-Type (I suggest to use a bit higher values like the moist bog heath)	No references
Moist reeds and (forb) meadows <i>Lythrum salicaria-Urtica dioica-Phragmites australis</i> -community <i>Dianthus superbus-Molinia caerulea meadow</i> <i>Polygonum bistorta-Cirsium oleraceum meadow</i> <i>Filipendula ulmaria-Galeopsis tetrahit-Molinia caerulea</i> -community <i>Filipendula ulmaria-Urtica dioica-Polygonum bistorta</i> -community <i>Filipendula ulmaria-Urtica dioica-Cirsium oleraceum</i> -community <i>Gcuta virasa-Carex acutiformis-Phragmites australis</i> -community <i>Molinia caerulea - Dicanella cerviculata</i> -community	Phragmites australis , Pohlia nutans , Urtica dioica , <i>Carex acutiformis</i> , <i>Solidago canadensis</i> , <i>Epilobium</i> spec., <i>Juncus effusus</i> , <i>Deschampsia caespitosa</i> , <i>Peucedanum</i> spec., <i>Calamagrostis</i> spec., <i>Molinia caerulea</i> , <i>Dicanella</i> spec., <i>Brachythecium rutabulum</i> , <i>Carex flava</i> , <i>Dicanella cerviculata</i> , <i>Dicranum polysetum</i> , <i>Calamagrostis epigejos</i> , <i>Rubus idaeus</i>	3+	4,6 -2,80 (accord. to REICHELTL 2015)	7,5 (0.0) (accord. to REICHELTL 2015)	12,2 (3.0) (accord. to REICHELTL 2015)	Calibration this vegetation types are not included in the vegetation form-concept this vegetation types are not included in the vegetation form-concept this vegetation types are not included in the vegetation form-concept this vegetation types are not included in the vegetation form-concept	KOCH et al. (2014) FORTUNIAK et al. (2017) WILSON et al. (2016)
Moist bog heath	Calluna vulgaris , Eriophorum vaginatum , <i>Cladonia</i> spec., <i>Polytrichum strictum</i>	3+	9,4 (12.3) (accord. to REICHELTL 2015)	0 (0.2) (accord. to REICHELTL 2015)	9,4 (12.5) (accord. to REICHELTL 2015)	Calibration	DRÖSLER et al. (2013)
Bare Peat (wet)		4+ (5+)	1,5 (1.3) (accord. to REICHELTL 2015)	0,1 (0.2) (accord. to REICHELTL 2015)	1,6 (1.5) (accord. to REICHELTL 2015)	No Target GEST	BORTOLUZZI et al. (2006) WILSON et al. (2016)
Bare Peat (moist)	<i>patchily occurring: Betula pendula, Calluna vulgaris, Camphylpus intraflexus, Equisetum arvensis, Eriophorum vaginatum, Polytrichum strictum, Rhynchospora alba</i>	3+	6,2 (9.0) (accord. to REICHELTL 2015)	0,0 (0.0) (accord. to REICHELTL 2015)	6,2 (9.0) (accord. to REICHELTL 2015)	Calibration	VANSELOW-ALGAN et al. (2015) WILSON et al. (2009) WILSON et al. (2016)
Very moist Meadows, forbs and small sedges reeds <i>Scirpetum sylvaticum meadow</i> <i>Juncus-Carex nigra-reed</i> <i>Tall sedges-Cirsium oleraceum meadow</i> <i>Peucedanum palustre-Molinia caerulea</i> -community <i>Caltha palustris-Filipendula ulmaria</i> -community <i>Polygonum bistorta-Caltha palustris-Carex paniculata</i> -community <i>Carex nigra-Caltha palustris-Filipendula ulmaria</i> -community <i>Gallium palustre-Carex paniculata</i> -community <i>Sedges-Eriophorum-reed</i>	Carex rostrata , Carex lasiocarpa , Phragmites australis , Eriophorum angustifolium , Molinia caerulea , Calliergonella cuspidata , Comarum palustre , Menyanthes trifoliata , Oxycoccus palustris , Salix aurita , <i>Carex acutiformis</i> , <i>Poa pratensis</i> , <i>Rubus idaeus</i> , <i>Urtica dioica</i> , <i>Lysimachia vulgaris</i> , <i>Lythrum salicaria</i> , <i>Peucedanum palustre</i> , <i>Thelypteris palustris</i> , <i>Utricularia</i> spp., <i>Salix lapponum</i> , <i>Salix rosmarinifolia</i> , <i>Sphagnum</i> spp., <i>Bryum pseudotriquetrum</i> , <i>Scorpidium scorpioides</i> , <i>Campyllum stellatum</i> , <i>Calla palustris</i> , <i>Carex limosa</i> , <i>Chamaedaphne calyculata</i> , <i>Dactylorhiza incarnata</i> , <i>Drosera rostrata</i> , <i>Equisetum fluviatile</i> , <i>Eriophorum vaginatum</i> , <i>Lysimachia thysiflora</i> , <i>Pedicularis palustris</i> , <i>Rhynchospora alba</i> , <i>Sphagnum teres</i> , <i>Juncus effusus</i> , <i>Scirpus sylvaticus</i> , <i>Calamagrostis canescens</i> , <i>Calliergon cordifolium</i> , <i>Climacium dendroides</i>	4+ (5+)	-0,5 (12.6) (accord. to REICHELTL 2015)	2,3 (0.3) (accord. to REICHELTL 2015)	1,9 (13.0) (accord. to REICHELTL 2015)	Calibration this vegetation types are not included in the vegetation form-concept this vegetation types are not included in the vegetation form-concept this vegetation types are not included in the vegetation form-concept	TAUCHNITZ et al. (2008) AUDET et al. (2013) DRÖSLER et al. (2013) RINNE et al. (2007)
Wet Meadows and forbs <i>Valeriana-Polygonum bistorta meadow (wet)</i> <i>Caltha palustris-Filipendula ulmaria</i> -community (wet) <i>Rhynchospora alba</i> -community <i>Rhynchospora alba-Eriophorum vaginatum</i> -community <i>Rhynchospora alba-Trichophorum alpinum</i> -community <i>Trichophorum alpinum</i> -community	Rhynchospora alba , Trichophorum alpinum , <i>Carex dioica</i> , <i>C. echinata</i> , <i>C. lasiocarpa</i> , <i>C. limosa</i> , <i>C. nigra</i> , <i>C. rostrata</i> , <i>Dactylorhiza cruenta</i> , <i>D. baltica</i> , <i>D. fuchsii</i> , <i>D. maculata</i> , <i>Drosera anglica</i> , <i>D. rotundifolia</i> , <i>Epipactis palustris</i> , <i>Eriophorum latifolium</i> , <i>E. vaginatum</i> , <i>Juniperus communis</i> , <i>Menyanthes trifoliata</i> , <i>Oxycoccus palustris</i> , <i>Phragmites australis</i> , <i>Platanthera bifolia</i> , <i>Pinguicula vulgaris</i> , <i>Trichophorum cespitosum</i> , <i>Sphagnum warnstorffii</i> , <i>Calliergon giganteum</i> , <i>Campyllum stellatum</i> , <i>Cinclidium stygium</i> , <i>Fissidens adianthoides</i> , <i>Scorpidium scorpioides</i> , <i>Tomenthypnum nitens</i> , <i>Sphagnum capillifolium</i> , <i>Sphagnum fallax</i>	5+	±0,0 (-3.9) (accord. to REICHELTL 2015)	5,8 (7.4) (accord. to REICHELTL 2015)	5,8 (3.5) (accord. to REICHELTL 2015)	Gapfilling/Calibration this vegetation types are not included in the vegetation form-concept extrapolated from rewetted grassland this vegetation types are not included in the vegetation form-concept this vegetation types are not included in the vegetation form-concept this vegetation types are not included in the vegetation form-concept	AUDET et al. (2013)
Very moist/Wet calcareous Meadows, forbs... <i>Primula farinosa-Schoenus ferrugineus</i> -community <i>Scorpidium scorpioides-Eleocharis quinqueflora</i> -community	Myrica gale , Molinia caerulea , Schoenus ferrugineus , Carex hostiana , Carex flacca , Carex panicea , Carex lepidocarpa , Carex dioica , <i>Betula pubescens</i> , <i>Pinguicula vulgaris</i> , <i>Ranunculus repens</i> , <i>Urtica dioica</i>					Gapfilling New GEST-Type	

<p>Scorpidium scorpioides-Cladium mariscus-community</p> <p><i>Phragmites australis-community on saltmarshes (w)</i></p>	<p><i>Primula farinosa, Pingucula vulgaris, Parnassia palustris, Epipactis palustris, Equisetum variegatum, Phragmites australis, Sesleria caerulea, Linum catharticum, Potentilla erecta, Eupatorium cannabinum, Gymnadenia conopsea, Triglochin palustre, Drepanocladus revolvens, Scorpidium scorpioides, Campyllum stellatum, Fissidens adianthoides, Calliergonella cuspidata, Cladium mariscus, Phragmites australis, Menyanthes trifoliata</i></p>	4+/5+	0,2	0,5	0,7	this vegetation types are not included in the vegetation form-concept	DRÖSLER et al. (2013), AURELA et al. (2007)
<p>Very moist bog heath</p>	<p><i>Calluna vulgaris, Ledum palustre, Sphagnum spec., Molinia caerulea, Polytrichum strictum, Sphagnum magellanicum</i></p>	4+	1,7 (4.7) <small>(accord. to REICHELTL 2015)</small>	3,0 (0.9) <small>(accord. to REICHELTL 2015)</small>	4,6 (5.5) <small>(accord. to REICHELTL 2015)</small>	Calibration	DRÖSLER (2005) LUND et al. (2007)
<p>Wet bog heath</p>	<p><i>Calluna spec., Erica spec.</i></p>	5+ (4+)	3,1 (0.0) <small>(accord. to REICHELTL 2015)</small>	21,6 (17.8) <small>(accord. to REICHELTL 2015)</small>	24,7 (18.0) <small>(accord. to REICHELTL 2015)</small>	Calibration	VANSELOW-ALGAN et al. (2015)
<p>Very moist tall sedges reeds</p>		4+	0,5 (10.7) <small>(accord. to REICHELTL 2015)</small>	6,9 (1.6) <small>(accord. to REICHELTL 2015)</small>	7,4 (12.5) <small>(accord. to REICHELTL 2015)</small>	No Target GEST	SOMMER et al. (2004) 2 sites GÜNTHER et al. (2014) 2 sites DRÖSLER et al. (2013)
<p>Very moist peat moss lawn</p> <p><i>Peat moss lawn with large Eriophorum hummocks or Molinia caerulea</i></p>	<p><i>Sphagnum medii, Calluna vulgaris, Eriophorum vaginatum, Sphagnum spp.</i></p>	4+ (5+)	-1,1 (-4.3) <small>(accord. to REICHELTL 2015)</small>	3,4 (1.5) <small>(accord. to REICHELTL 2015)</small>	2,3 (-3.0) <small>(accord. to REICHELTL 2015)</small>	Calibration this vegetation types are not included in the vegetation form-concept	BARTOLUZZI et al. (2006) DRÖSLER (2005) 3 sites DRÖSLER (2013) 2 sites
<p>Wet tall sedges reeds</p> <p><i>Ranunculus lingua-Carex elata-Phragmites australis-community (wet)</i> <i>Valeriana dioica-Berula erecta-Carex paniculata-community (wet)</i> <i>Carex gracilis reed</i> <i>Carex rostrata-Salix aurita-Eriophorum angustifolium</i></p>	<p><i>Carex elata, C. pseudocyperus, Phragmites australis, Myrica gale</i></p>	5+ (4+)	-0,1 (1.0) <small>(accord. to REICHELTL 2015)</small>	8,5 (9.5) <small>(accord. to REICHELTL 2015)</small>	8,4 (10.5) <small>(accord. to REICHELTL 2015)</small>	Calibration this vegetation types are not included in the vegetation form-concept this vegetation types are not included in the vegetation form-concept	GÜNTHER et al. (2014) WILSON et al. (2009)
<p>Wet small sedges reeds mostly with moss layer</p> <p><i>Sphagnum recurvum-Eriophorum angustifolium-community</i> <i>Calliergonella cuspidata-Viola palustris-Carex appropinquata-community</i> <i>Sphagnum teres-Viola palustris-Carex appropinquata-community</i> <i>Parnassia palustris-Carex nigra-community</i> <i>Sphagnum recurvum-Juncus effusus-community</i> <i>Juncus effusus-Phragmites australis-Calamagrostis canescens-community</i></p>	<p><i>Carex rostrata, Sphagnum fallax, Eriophorum vaginatum, Carex canescens, Agrostis canina, Sphagnum cuspidatum, Eriophorum angustifolium, Juncus effusus</i></p>	5+ (4+)	-3,5 (-2.0) <small>(accord. to REICHELTL 2015)</small>	6,8 (4.7) <small>(accord. to REICHELTL 2015)</small>	3,3 (2.5) <small>(accord. to REICHELTL 2015)</small>	Calibration this vegetation type not included in the vegetation form-concept	DRÖSLER et al. (2013) AUDET et al. (2013) 3 sites JUSZCZAK & AUGUSTIN (2013) MINKE et al. (2015) 4 sites BEETZ et al. (2013) HELFTER et al. (2015) WILSON et al. (2016) Wilson et al. (2009)
<p>Wet tall reeds</p> <p><i>Solanum dulcamara-Gallium palustre-Phragmites australis-community</i> <i>Rorippa amphibia-Typha latifolia-Phragmites australis-community</i> <i>Bidens tripartita-Veronica anagallis-aquatica-Gyneria maxima-community</i> <i>Phragmites australis-Carex rostrata-community</i></p>	<p><i>Phragmites australis, Acorus calamus, Carex rostrata, Comarum palustre, Eleocharis palustris, Equisetum fluviatile, Isoetes lacustris, Littorella uniflora, Lobelia dortmanna, Myriophyllum alterniflorum, M. verticillatum, Nitella flexilis, Nuphar lutea, N. pumila, Polygonum amphibium, Potamogeton lucens, P. natans, Ranunculus reptans, Sparganium angustifolium, Utricularia vulgaris, Salix cinerea, Carex nigra, Epilobium palustre, Lemna minor, Lycopodium europaeus, Poa palustris, Calamagrostis canescens</i></p>	5+	-2,3 (0.2) <small>(accord. to REICHELTL 2015)</small>	6,3 (6.5) <small>(accord. to REICHELTL 2015)</small>	4,0 (6.5) <small>(accord. to REICHELTL 2015)</small>	Calibration this vegetation type not included in the vegetation form-concept	GÜNTHER et al. (2014) 2 sites AUDET et al. (2013) 3 sites WILSON et al. (2009)
<p>Wet peat moss lawn</p> <p><i>Sphagnum magellanicum-community</i> <i>Eriophorum vaginatum-Sphagnum recurvum-community</i></p>	<p><i>Eriophorum vaginatum, Sphagnum cuspidatum, Andromeda polifolia, Calluna vulgaris, Chamaedaphne calyculata, Drosera anglica, D. rotundifolia, Empetrum nigrum, Ledum palustre, Oxycoccus microcarpus, O. palustris, Rhynchospora alba, Rubus chamaemorus, Trichophorum cespitosum, Vaccinium uliginosum, V. vitis-idaea, Cladopodiella fluitans, Dicranum polysetum, Polytrichum commune, Sphagnum fuscum, S. capillifolium, S. fallax, S. flexuosum, S. magellanicum, S. rubellum, S. tenellum, Cladonia stellaris, C. stygia, Mylia anomala</i></p>	5+ (4+)	-0,5 (-3.0) <small>(accord. to REICHELTL 2015)</small>	0,3 (5.3) <small>(accord. to REICHELTL 2015)</small>	-0,3 (2.0) <small>(accord. to REICHELTL 2015)</small>	Calibration this vegetation type not included in the vegetation form-concept	DRÖSLER (2013) 3 sites
<p>Peat moss lawn on former peat-cut off areas</p>	<p><i>Sphagnum spec., Sphagnum cuspidatum, S. fallax, Eriophorum vaginatum/angustifolium, Molinia caerulea, Dicranella cerviculata, Phragmites australis, Carex rostrata</i></p>	5+/4+	1,5 (2.8) <small>(accord. to REICHELTL 2015)</small>	0,4 (37.3) <small>(accord. to REICHELTL 2015)</small>	1,9 (40) <small>(accord. to REICHELTL 2015)</small>	Calibration	DRÖSLER (2005) DRÖSLER et al. (2013) BORTOLUZZI et al. (2006)
<p>Wet peat moss lawn with pine trees</p> <p><i>Pinus sylvestris-Sphagnum magellanicum-community</i></p>	<p><i>Pinus sylvestris, Sphagnum magellanicum, Sphagnum spec., S. rubellum, S. medii, Eriophorum vaginatum, Ledum palustre, Calluna vulgaris, Menyanthes trifoliata, Vaccinium uliginosum, Sphagnum fallax</i></p>	4+	3,9	0,2	4,1	Gapfilling/Calibration New GEST-Type Data without woods	DRÖSLER et al. (2013)
<p>Wet peat moss hollows resp. flooded peat moss lawn</p> <p><i>Sphagnum cuspidatum-Carex limosa-community</i> <i>Sphagnum recurvum-Carex limosa-community</i></p>	<p><i>Sphagnum cuspidatum, Calla palustris, Carex limosa, C. elata, C. lasiocarpa, C. rostrata, Chamaedaphne calyculata, Comarum palustre, Drosera rotundifolia, D. anglica, Equisetum fluviatile, Eriophorum vaginatum, E. latifolium, Menyanthes trifoliata, Molinia caerulea, Lysichachia thyrsiflora, Oxycoccus palustris, Rhynchospora alba, Scheuchzeria palustris, Succisa pratensis, Thelypteris palustris, Calliergonella cuspidata, Sphagnum recurvum, S. magellanicum, S. teres, Utricularia sp., Eriophorum angustifolium</i></p>	5+	-3,1 (-4.6) <small>(accord. to REICHELTL 2015)</small>	12,0 (11.8) <small>(accord. to REICHELTL 2015)</small>	8,9 (7) <small>(accord. to REICHELTL 2015)</small>	Calibration	DRÖSLER (2005) DRÖSLER (2013) 2 sites VANSELOW-ALGAN et al. (2015)
<p>Flooded Tall Sedges reeds & Typha-Reeds</p> <p><i>Rorippa amphibia-Typha latifolia-Phragmites australis-community (flooded)</i> <i>Ranunculus lingua-Carex elata-Phragmites australis-community (inundated)</i> <i>Drepanocladus revolvens-Carex diandra-community (flooded)</i></p>		6+/5+	1,2 (-1.1) <small>(accord. to REICHELTL 2015)</small>	14,6 (6,8) <small>(accord. to REICHELTL 2015)</small>	15,8 (5,5) <small>(accord. to REICHELTL 2015)</small>	No Target GEST	GÜNTHER et al. (2014) MINKE et al. (2015) 3 sites

<i>Sphagnum denticulatum-Carex rostrata</i> -community							
Flooded Phragmites & Phalaris reeds <i>Utricularia vulgaris-Cladium mariscus</i> -community <i>Typha angustifolia-Lemna minor-Phragmites australis</i> -community <i>Schoenoplectus lacustris-Phragmites australis</i> -community	5+/6+	-15,7 (-12.4) (accord. to REICHEL 2015)	13,0 (12.4) (accord. to REICHEL 2015)	-2,7 (0) (accord. to REICHEL 2015)	No Target GEST	MINKE et al. (2015)	
Flooded Reeds with lateral matter transport from surrounded areas <i>Ranunculus lingua-Carex elata-Phragmites australis</i> -community (flooded) <i>Circa virosa-Carex acutiformis-Phragmites australis</i> -community <i>Typha angustifolia-Lemna minor-Phragmites australis</i> -community (flooded)	6+	-2,9 (2.4) (accord. to REICHEL 2015)	37,0 (40.9) (accord. to REICHEL 2015)	34,0 (43.5) (accord. to REICHEL 2015)	No Target GEST	GELBRECHT et al. (2008) DRÖSLER et al. (2013) 2 sites	
extremely flooded Reeds (>20 cm above surface) <i>Solanum dulcamara-Gallium palustre-Phragmites australis</i> -community (inundated) <i>Rorippa amphibia-Typha latifolia-Phragmites australis</i> -community (inundated)	6+	-32,8 (-32.7) (accord. to REICHEL 2015)	33,6 (26.2) (accord. to REICHEL 2015)	0,8 (-6.5) (accord. to REICHEL 2015)	No Target GEST	MINKE et al. (2015)	
<u>open water/ditches</u>	6+	No data (+ 0) (accord. to REICHEL 2015)	2,8 (3.2) (accord. to REICHEL 2015)	No Data (3.0) (accord. to REICHEL 2015)	Gapfilling	VAN DEN POL-VAN DASSELAAR et al. (1999), 3 sites	
Forested Peatlands Oligotrophic Peatlands							
Dry Forest and Shrubberies	2-	26,02	0,0	26,0	Gapfilling New GEST-Type Data without woods, extrapolated from <i>Picea abies</i> stands in temperate Germany, no peat	Matteucci et al. (2000)	
Moderately moist Forest and shrubberies <i>Pleurozium schreberi-Pinus sylvestris</i> -community <i>Pleurozium schreberi-Betula pubescens</i> -community <i>Molinia caerulea-Betula pubescens</i> -community	2+	Betula pendula , Betula pubescens , Vaccinium myrtillus , Picea abies , V. vitis-idaea , Calluna vulgaris , Pleurozium schreberi , Pinus sylvestris , Eriophorum vaginatum , V. uliginosum , Molinia caerulea , Andromeda polifolia , Empetrum nigrum , Ledum palustre , Oxalis acetosella , Rhynchospora alba , Rubus chamaemorus , Dicranum polysetum , Oxycoccus palustris , Polytrichum commune , P. juniperinum , Sphagnum fuscum , S. magellanicum , S. capillifolium , Cladonia stellaris , Frangula alnus , Lycopodium annotinum , Rubus idaeus , Polytrichum strictum , Agrostis capillaris , Calamagrostis epigejos , Fragaria vesca , Rubus nessensis , Dicranum scoparium ,	20 [-3.1]	0 [-0.11]	20 [-3.22]	Gapfilling Data without woods extrapolated from Moderately Moist (forb) meadows [Data with woods] this vegetation type is not included in the vegetation form-concept	OJANEN et al. (2014) 2 sites MEYER et al. (2013) calculated for <i>Picea abies</i> stands
Moist Forests and shrubberies <i>Vaccinium uliginosum-Betula pubescens</i> -community <i>Vaccinium uliginosum-Pinus sylvestris</i> -community	3+	Vaccinium uliginosum , Eriophorum vaginatum , Betula pendula , Andromeda polifolia , Carex echinata , Carex nigra , Carex rostrata , Ledum palustre , Molinia caerulea , Oxycoccus palustris , Rubus chamaemorus , Hylocomium splendens , Betula pubescens , Pinus sylvestris , Calluna vulgaris , Dicranum polysetum , Pleurozium schreberi , Sphagnum fallax , Sphagnum magellanicum , Sphagnum rubellum	9,4 [-2.2]	0 [-1.8]	9,4 [-4.0]	Gapfilling Data without woods, extrapolated from Moist Bog Heath [Data with woods]	OJANEN et al. (2014) 2 sites; HOMMELTENBERG et al. (2014) (similar vegetation but different water level)
Very moist Forests and shrubberies <i>Eriophorum vaginatum-Betula pubescens</i> -community <i>Eriophorum vaginatum-Pinus sylvestris</i> -community	4+	Eriophorum vaginatum , Betula pubescens , Pinus sylvestris , Empetrum nigrum , Ledum palustre , Myrica gale , Sphagnum spp.	1,7 [-2.3]	3,0 [1.75]	4,7 [-0.55]	Calibration Data without woods, extrapolated from Very Moist Bog Heath [Data with woods]	HOMMELTENBERG et al. (2014)
Mesotrophic and eutrophic peatlands							
Dry Forests and shrubberies	2-	Populus tremula , Rubus idaeus , Acer platanoides , Fraxinus excelsior , Picea abies , Quercus robur , Corylus avellana , Padus avium , Sorbus aucuparia , Tilia cordata , Ulmus glabra , Aegopodium podagraria , Anemone spp. , Asarum europaeum , Campanula latifolia , Convallaria majalis , Galium odoratum , Hepatica nobilis , Galeobdolon luteum , Lathyrus vernus , Oxalis acetosella , Paris quadrifolia , Stellaria holostea , Atrichum undulatum , Eurhynchium angustirete , Plagiomnium undulatum , Rhytidadelphus triquetrus , Betula pendula , Urtica dioica , Molinia caerulea , Frangula alnus	43,4	0	43,4	Gapfilling New GEST-Type Data without woods, extrapolated from deciduous forests in Wisconsin	BOLSTAD et al. (2004)
Moderately moist Forests and shrubberies <i>Rubus fruticosus-Frangula alnus</i> -community <i>Rubus fruticosus-Betula pubescens</i> -community <i>Molinia caerulea-Quercus robur</i> -community		Betula pendula , Rubus idaeus , Franaula alnus Calamagrostis epinepis Betula	20,0 [1.0]	0,0 [No data]	20,0 [1.0]	Gapfilling Data without woods extrapolated from Moderately Moist (forbs) meadows [Data with woods]	

<p><i>Rhamnus cathartica-Quercus robur</i> -community <i>Cirsium oleraceum-Salix cinerea</i> -community <i>Circaea alpina-Fagus sylvatica</i> -community <i>Millium effusum-Alnus glutinosa-Fraxinus excelsior</i> -community <i>Urtica dioica-Sambucus nigra-alnus glutinosa-Fraxinus excelsior</i> -community</p>	<p><i>pubescens</i>, <i>Molinia caerulea</i>, <i>Salix cinerea</i>, <i>Populus tremula</i>, <i>Brachythecium rutabulum</i>, <i>Lycopodium annotinum</i>, <i>Pinus sylvestris</i>, <i>Lysimachia vulgaris</i>, <i>Padus serotina</i>, <i>Dryopteris carthusiana</i>, <i>Polytrichum formosum</i>, <i>Scleropodium purum</i>, <i>Vaccinium myrtillus</i>, <i>Quercus robur</i>, <i>Rubus caesius</i>, <i>Pyrola rotundifolia</i>, <i>Carex hartmanii</i>, <i>Carex vaginata</i>, <i>Fraxia vesca</i>, <i>Dicranum scoparium</i>, <i>Rubus nessensis</i>, <i>Brachythecium oedipodium</i>, <i>Salix aurita</i>, <i>Artemisia vulgaris</i>, <i>Calamagrostis canescens</i>, <i>Carex hirta</i>, <i>Urtica dioica</i>, <i>Polytrichum juniperinum</i>, <i>Pteridium aquilinum</i></p>	2+					OJANEN et al. (2014)
<p>Moist Forests and shrubberies <i>Molinia caerulea-Frangula alnus</i> -community <i>Sphagnum-Betula pubescens</i> -community <i>Lysimachia vulgaris-Quercus robur</i> -community <i>Potentilla erecta-Salix cinerea</i> -community <i>Rhamnus cathartica-Betula pubescens</i> -community <i>Carex acutiformis-Salix cinerea</i> -community <i>Athyrium filix-femina-Alnus glutinosa</i> -community <i>Padus avium-Alnus glutinosa-Fraxinus excelsior</i> -community <i>Carex remota-Alnus glutinosa-Fraxinus excelsior</i> -community <i>Urtica dioica-Salix cinerea</i> -community <i>Urtica dioica-Carex acutiformis-Alnus glutinosa-Fraxinus excelsior</i> -community</p>	<p>Alnus glutinosa, Betula pendula, Athyrium filix-femina, Fraxinus excelsior, Picea abies, Salix cinerea, Cardamine amara, Carex sylvatica, Chrysosplenium alternifolium, Cirsium oleraceum, Crepis paludosa, Filipendula ulmaria, Geranium robertianum, Geum rivale, Stellaria nemorum, Urtica dioica, Carex acutiformis, Sorbus aucuparia, Ulmus glabra, Carex spec., Phragmites australis, <i>Vaccinium myrtillus</i>, <i>V. vitis-idaea</i>, <i>Eriophorum vaginatum</i>, <i>Hylacomium splendens</i>, <i>Humulus lupulus</i>, <i>Impatiens parviflora</i>, <i>Populus tremula</i>, <i>Rubus fruticosus</i>, <i>Betula pubescens</i>, <i>Corylus avellana</i>, <i>Dryopteris carthusiana</i>, <i>Eupatorium cannabinum</i>, <i>Galeobdolon luteum</i> agg., <i>Plagiommium undulatum</i></p>	3+	4,6 [21.59 - 24.98]	7,5 [0.004 - 5.35]	12,2 [21.59 - 30.33]	<p>Gapfilling Data without woods, extrapolated from Moist Reeds and Forbs Meadows [Data with woods]</p>	AUGUSTIN (2001); ALNUS
<p>Very moist Forests and shrubberies <i>Eriophorum angustifolium-Salix aurita</i> -community <i>Carex rostrata-Betula pubescens</i> -community <i>Thelypteris palustris-Salix aurita</i> -community <i>Sphagnum-Betula pubescens-Alnus glutinosa</i> -community <i>Betula humilis-Salix repens</i> -community <i>Carex-Salix pentandra</i> -community <i>Salix pentandra-Betula pubescens</i> -community <i>Valeriana dioica-Salix pentandra</i> -community <i>Valeriana dioica-Betula pubescens</i> -community <i>Thelypteris palustris-Salix cinerea</i> -community <i>Carex elongata-Alnus glutinosa</i> -community <i>Alnus glutinosa-Salix cinerea</i> -community <i>Cardamine amara-Alnus glutinosa</i> -community <i>Iris pseudocorus-Alnus glutinosa</i> -community <i>Galium palustre-Alnus glutinosa-Fraxinus excelsior</i> -community</p>	<p>Alnus glutinosa, Carex acutiformis, Betula pubescens, Sphagnum squarrosum, Myrica gale, <i>Menyanthes trifoliata</i>, <i>Molinia caerulea</i>, <i>Carex</i> spp., <i>Sphagnum</i> spp., <i>Pinus sylvestris</i>, <i>Betula pendula</i>, <i>Frangula alnus</i>, <i>Athyrium filix-femina</i>, <i>Galium palustre</i>, <i>Geum rivale</i>, <i>Iris pseudocorus</i>, <i>Lycopus europaeus</i>, <i>Lysimachia vulgaris</i>, <i>Peucedanum palustre</i>, <i>Solanum dulcamara</i>, <i>Thelypteris palustris</i>, <i>Climacium dendroides</i>, <i>Calliergonella cuspidata</i></p>	4+	-0,5 [-10.72 - -5.97]	2,1 [0.81 - 4.27]	1,6 [-9.91 - -1.7]	<p>Gapfilling Data without woods, extrapolated from Very Moist Meadows, Forbs and Small Sedges Reeds [Data with woods]</p>	AUGUSTIN (2001); ALNUS
<p>Wet Forests and shrubberies <i>Eriophorum angustifolium-Salix aurita</i> -community <i>Carex rostrata-Betula pubescens</i> -community <i>Thelypteris palustris-Salix aurita</i> -community <i>Sphagnum-Betula pubescens-Alnus glutinosa</i> -community <i>Betula humilis-Salix repens</i> -community <i>Carex-Salix pentandra</i> -community <i>Salix pentandra-Betula pubescens</i> -community <i>Valeriana dioica-Salix pentandra</i> -community <i>Valeriana dioica-Betula pubescens</i> -community <i>Thelypteris palustris-Salix cinerea</i> -community <i>Carex elongata-Alnus glutinosa</i> -community <i>Alnus glutinosa-Salix cinerea</i> -community <i>Cardamine amara-Alnus glutinosa</i> -community <i>Iris pseudocorus-Alnus glutinosa</i> -community <i>Galium palustre-Alnus glutinosa-Fraxinus excelsior</i> -community <i>Eriophorum vaginatum-Betula pubescens</i> -community <i>Eriophorum vaginatum-Pinus sylvestris</i> -community</p>	<p><i>Betula pubescens</i>, <i>Carex acutiformis</i>, <i>Alnus glutinosa</i>, <i>Betula pendula</i>, <i>Salix</i> spp., <i>Frangula alnus</i>, <i>Pinus sylvestris</i>, <i>Juniperus communis</i>, <i>Carex lasiocarpa</i>, <i>Carex limosa</i>, <i>Carex rostrata</i>, <i>Comarum palustre</i>, <i>Equisetum fluviatile</i>, <i>Eriophorum vaginatum</i>, <i>Menyanthes trifoliata</i>, <i>Oxycoccus palustris</i>, <i>Phragmites australis</i>, <i>Rhynchospora alba</i>, <i>Sphagnum teres</i>, <i>Sphagnum magellanicum</i>, <i>Calliergonella cuspidata</i></p>	5+	-3,5 [-4.89]	6,8 [0.04 - 11.46]	3,3 [-4.85 - 6.57]	<p>No Target GEST Data without woods, extrapolated from Wet Small Sedges Reeds mostly with Moss Layer [Data with woods]</p>	AUGUSTIN (2001); ALNUS

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