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Die Vergletscherung des Kantons Thurgau während der wichtigsten Phasen der letzten Eiszeit

Erich R. Möller
Abbildungen 2 bis 5, 8 und 11

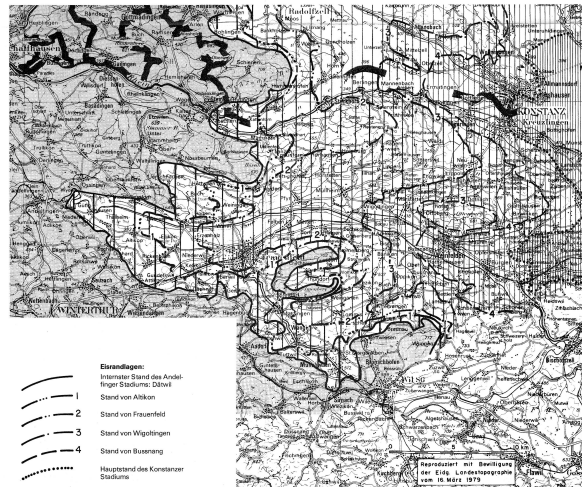
Abbildung 2: Bildungen des Eisaufbaues während der Frühwürms (Zätopoche) zwischen dem Riss-Würmerglazial und dem Würm-Maximalstand

| Phase | Eisrand | Moräne/Dumfries | Schotter | Entwässerungsrinnen | Schieferkanten | |
|-------------------------|---|---|---|--|--|--|
| IV b IV a | akkusative Vorstoss zum Maximalstand | mehrere isolierte überflutete Wälder | Langwiesen - Feuerthalen - Radlflügel - Steig - Gosenwil - Burg | Hofstetten - Kolbunn - Oberknonau - Oberwangen | | |
| | Unteres Bibertal | Roosbuck / Staffebuck | Gälligen - Göttingen - Schaffhausen | Rheinthal | | |
| | Schattlingen | Trülkorn - Schattlingen | S von Schattlingen | Bestalden - Basadingen | | |
| | Oesingen | E von Oesingen | Oesingen - Schrienerberg | Thurthal | | |
| | Andelfingen | Dägerlen - Adlikon | Henggarteral | | | |
| | Egg | | Egg - Aenterswil | Eschthal | | |
| | Wien | Vogelberg | | Agthaus - Baswil - Lützel - Anwil - Dussang - Tüfenthal - Tostal | | |
| | Flawil - Burgau | | | Greenmoos - Unterindal | | |
| | Tannenberg - Niederwil (Höngg - Altsappen) | | Tannenberg (Hrings - Neuheim 26) | Chellenbach | | |
| | Alpenhering | | Singer Becken | Untersae - Rheinthal | Buchberg (Limbellen) | |
| III 2. Warmphase | Frauenfeld - Wigoltingen | Frauenfeld - Wigoltingen | Ittinger Schotter - Strass - Messeried | Thurthal | | |
| | Lauchthal | Wärg - Mänwil | Mattigen - Aewingen - Wittwil | Eschthal | | |
| | Niederschaffhausen - Zuzwil (Thalvi - Horgen) | Niederschaffhausen - Zuzwil (Sanstagen) | Zuckenriet | Sorenachtal | | |
| II 1. Warmphase | Alpenhering | | | | SE von Bernhardzell - NW von Buchsberg (Wildenwil, Buchberg) | |
| | Tägerwil | Konstanz - Wolmatingen | | Untersae - Rheinthal | | |
| I 1. Warmphase | Wetzikon - Mönchatten | | Fritschhausen - Reut - Merten - Fritschen | Thurthal | | |
| | Bischofszell - Niederlenken (Wädenswil) | Häggenach - Wittenbach - Möschiwil | Buchberg - Hohen - tenen - Schwenenbach - Niederhaffenschwil | | | |
| | | | Kaur und Rot - Holzschotter | Zürcherseel | | |
| | Alpenhering | | | | Möschiwil | |
| | ib | Oberer Untersaebecken Bodendücken | Konstanz - städtischer Bodendücken | Rächtenau - Alendach - Mönchflingen | Untersae - Rheinthal | |
| | Mülheim - Wigoltingen | Wigoltingen - Engewang | | Thurthal | | |
| | Bischofszell | | Sitter - Thurthal | | | |
| | Wägen - Habiswil Aul | | Zürcherseel | | | |
| | ia | Konstanz | Konstanzer Horn | Untersae - Rheinthal | | |
| | Sulgen | Sulgen - Amriwil | Thurthal | | | |
| Wunden - Rapperswil | | Burg - Fehenschatten | Zürcherseel | | | |
| Initiale Vorstossphasen | Alpenhering | | | | | |

Abbildung 3: Gliederung des Hochwürms

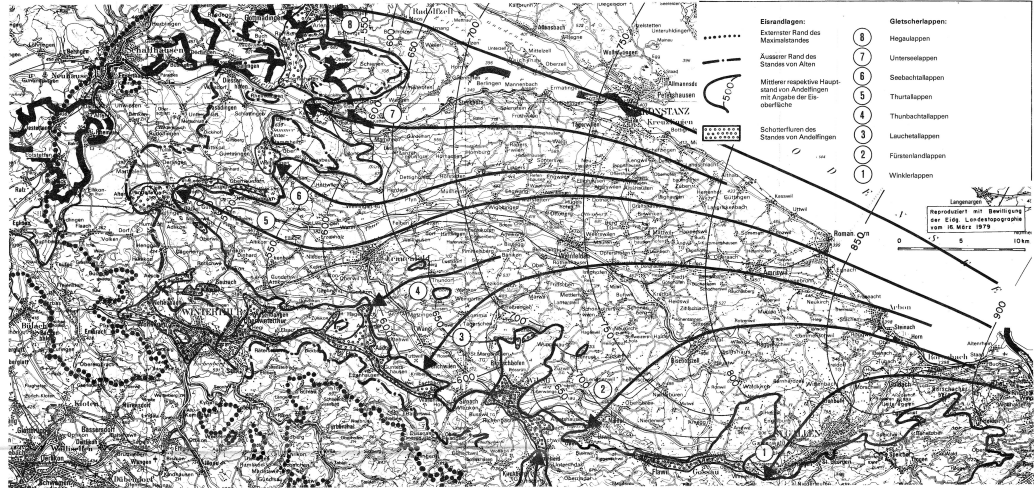
| Zeitraum / Stationen | Jahre vor heute |
|--|--------------------------------|
| Bodensee / Rheingletscher | 13 250 |
| Konstanz / Sulgen | 13 250 |
| Innere Staffeln des Thurtales / Untersaebeckens = Bodensee / Emsingen - Wigoltingen / Rächtenau - Frauenfeld / Stockhorn - Altkon / Memmen | |
| Staffeln von Andelfingen (reaktive Stein am Rhein; - Däwili / Stein am Rhein) | zika 16 000 bis 17 000 |
| - Neugart / Hemishofen - Andelfingen / Ezzelien | |
| Alten / Dissenhofen | zika 18 000 |
| Staffeln von Rütlingen / Schaffhausen | Staffeln von Kibwangen: 26 000 |

Abbildung 6: Rückschmelzphasen nach dem Stadium von Andelfingen



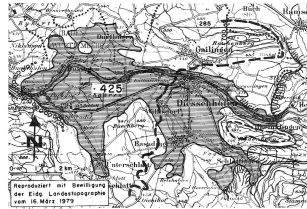
Massstab 1:200000

Abbildung 5: Eisrandlagen des Maximalstandes und des beginnenden Rückschmelzprozesses



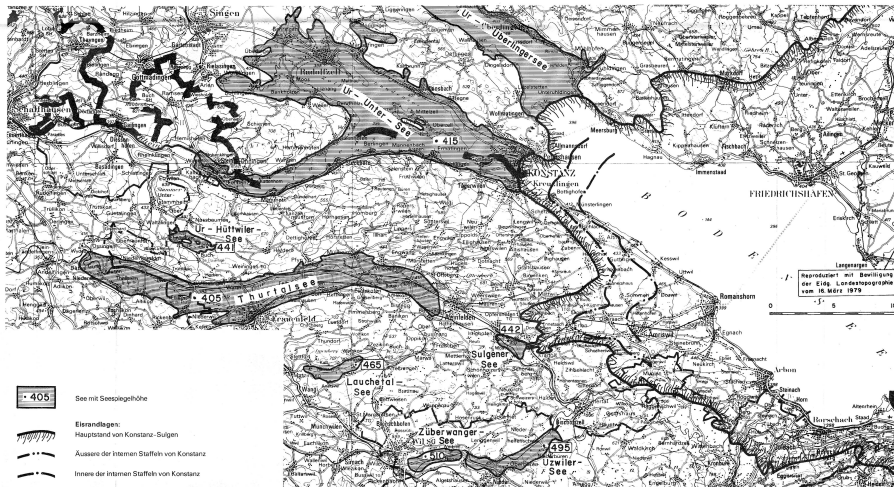
Massstab 1:200000

Abbildung 4: Dissenhofensee



Massstab 1:100000

Abbildung 11: Seenlandschaft und Eisrandlagen während des Stadiums von Konstanz



Massstab 1:200000

TABELLE 7 GEBUESCH- UND WALDGESELLSCHAFTEN IN ODER AM RAND VON QUELLSUEMPFFEN

| Nummer | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Aufnahmefläche | m ² | 70 | 40 | 50 | 100 | 100 | 250 | 50 | 200 | 70 | 30 |
| Höhe über Meer | m | 475 | 610 | 500 | 490 | 490 | 480 | 485 | 465 | 740 | 685 |
| Exposition | | E | NW | N | - | E | E | E | E | NW | |
| Neigungswinkel | ° | 15 | 15 | 15 | - | 3 | 10 | 10 | 3 | 20 | 25 |
| Deckungsgrad | Y | 20 | 60 | 40 | 50 | 80 | 90 | 50 | 65 | 75 | |
| Deckungsgrad | Y | 60 | 5 | 2 | 15 | 10 | 2 | 40 | 10 | 30 | 80 |
| Deckungsgrad | Y | 60 | 70 | 20 | 80 | 25 | 40 | 75 | 15 | + | 20 |
| Deckungsgrad | Y | 5 | 10 | 15 | 10 | + | + | 20 | - | + | 70 |
| Maximale Höhe | Y | 10 | 12 | 9 | 15 | 14 | 20 | 18 | 20 | 12 | |
| Maximale Höhe | Y | 4 | 2.5 | 3 | 5 | 5 | 2.5 | 4 | 5 | 5 | 4 |
| Maximale Höhe | Y | 200 | 100 | 100 | 100 | 100 | 80 | 80 | 80 | 20 | 30 |
| Artenzahl | | 33 | 30 | 28 | 38 | 26 | 35 | 33 | 31 | 22 | 26 |

| | | | | | | | | | | | |
|---------------------|-----|---|---|---|---|---|-----|-----|---|---|---|
| Y Alnus glutinosa | (1) | 3 | 3 | 4 | 4 | 3 | (+) | (+) | | | |
| Fraxinus excelsior | | | | | 1 | 3 | 3 | 4 | 4 | 3 | |
| Populus tremula | | | | | | | 2 | 1 | | 2 | |
| Prunus padus | | | | | + | 1 | 3 | | | | |
| Acer pseudoplatanus | | | | | | | | | 2 | 1 | |
| Quercus robur | | | | | | | | | 1 | 2 | |
| Fagus sylvatica | | | | | | | | | + | 2 | 2 |
| Picea excelsa | (1) | | | | | | | | + | 2 | |
| Betula pendula | (2) | | | | | | | | | | |

| | | | | | | | | | | | |
|--------------------|-----|---|---|---|---|---|---|---|---|---|---|
| Y Salix nigricans | | 3 | 3 | | 1 | | | | | | |
| Frangula alnus | | 2 | + | + | | | | | | | |
| Prunus padus | | | | | 2 | 2 | 1 | + | 2 | | |
| Corylus avellana | | | + | | | 1 | 3 | 3 | 2 | 3 | |
| Viburnum opulus | | | | | 2 | | | 2 | | 2 | |
| Fraxinus excelsior | | | + | | | | | + | 1 | | 1 |
| Fagus sylvatica | | | | | | | | | 1 | 1 | + |
| Lonicera xylosteum | | | | + | | | | | | 1 | 1 |
| Viburnum lantana | | | | | | | | + | | + | 2 |
| Picea excelsa | | 2 | | | | | | | | 2 | 2 |
| Ligustrum vulgare | | + | + | | | | | | | 1 | 3 |
| Berberis vulgaris | (+) | | | | | | | | | | 3 |
| Rhamnus cathartica | | | | | | | | | | | + |

| | | | | | | | | | | | |
|----------------------|--|---|---|---|---|---|---|---|---|---|---|
| Y Fraxinus excelsior | | + | 3 | + | 1 | + | 3 | 1 | 2 | 1 | |
| Acer pseudoplatanus | | | + | + | | + | 1 | 1 | | | + |
| Prunus padus | | + | | | 1 | 1 | 1 | 1 | 1 | | |
| Viburnum opulus | | | + | | 1 | 2 | 1 | 2 | 2 | + | + |
| Ligustrum vulgare | | | | + | | + | + | + | + | + | 2 |
| Hedera helix | | | | | | + | + | 2 | 2 | | |
| Solanum dulcamara | | 1 | | | 1 | | | | | | |
| Betula pendula | | 1 | | | | | | | | | |
| Viburnum lantana | | + | | | | | | | | | + |
| Berberis vulgaris | | | | | | | | | | | 1 |

| | | | | | | | | | | | |
|---------------------------|--|---|---|-----|---|---|---|---|---|---|---|
| Molinia coerulea | | 3 | 1 | 1 | | | | | | | + |
| Mentha aquatica | | 1 | 2 | 1 | + | | | | | | |
| Crepis paludosa | | + | 2 | | | | | | | | + |
| Lysimachia vulgaris | | 2 | 2 | 1 | 2 | | | | | | + |
| Cirsium palustre | | | + | + | | | | | | | |
| Eupatorium cannabinum | | 1 | + | 1 | 1 | | | | | | + |
| Galium mollugo | | 2 | + | | + | | | | | | |
| Symphytum officinale | | | + | + | | | | | | | |
| Acrocladium cuspidatum | | + | 2 | 2 | 1 | | | | | | |
| Mnium affine /seligeri | | | 2 | + | + | | | | | | |
| Fissidens adiantoides | | + | + | + | + | | | | | | |
| Ctenidium molluscum | | 2 | | + | | | | | | | |
| Phragmites communis | | 3 | | | 1 | + | + | | | | |
| Carex acutiformis | | | 2 | 2 | 3 | + | | 1 | | + | |
| Equisetum maximum | | + | 1 | 2 | + | + | + | 4 | + | | |
| Caltha palustris | | | + | (+) | 1 | | | 1 | | | |
| Filipendula ulmaria | | + | 2 | + | 2 | + | 1 | + | | | |
| Angelica silvatica | | | + | + | 1 | 1 | 1 | | | | + |
| Anemone nemorosa | | | + | + | 1 | 2 | 1 | | | | + |
| Circaea lutetiana | | + | | | 1 | + | + | 1 | + | | |
| Primula elatior | | + | | | + | + | + | 2 | + | | |
| Paris quadrifolia | | + | + | | + | 1 | 1 | 1 | + | + | |
| Brachypodium pinnatum | | 1 | | | + | + | | | | + | 2 |
| Pulmonaria officinalis | | | | | + | + | 1 | + | | | |
| Eurhynchium striatum | | | + | + | 2 | | + | 2 | | + | |
| Mnium undulatum | | 1 | | + | | | | 1 | | | |
| Carex silvatica | | | | | | 2 | + | 2 | 2 | | |
| Polygonatum multiflorum | | | | | | + | + | 1 | | | + |
| Stachys silvatica | | | | | | | 1 | 2 | 1 | | |
| Viola silvestris | | | | | | | + | + | + | | |
| Deschampsia cespitosa | | | | | | | | 1 | 1 | | |
| Scleropodium purum | | | | | | | | | | + | 2 |
| Hylocomium splendens | | | | | | | | | | | 3 |
| Rhyidiadelphus triquetrus | | | | | | | | | | | 3 |
| Aquilegia vulgaris | | | | | | | | | | | + |
| Lotus corniculatus | | | | | | | | | | | + |

Weitere Arten

- Aufn. 1: Y Lonicera xylosteum 1, Tamus communis 1, Rubus fruticosus +, Sorbus aucuparia +, Festuca rubra +, Potentilla erecta +
- Aufn. 2: Y Alnus glutinosa +, Y Alnus glutinosa +, Picea excelsa +, Frangula alnus +, Lonicera xylosteum + Equisetum arvense +, Equisetum palustre +
- Aufn. 3: Y Alnus glutinosa +, Agrostis stolonifera +, Carex davalliana +, Allium ursinum +, Lythrum salicaria +, Potentilla erecta +, Equisetum arvense +
- Aufn. 4: Y Sambucus nigra +, Y Rubus caesius +, Humulus lupulus +, Maianthemum bifolium +, Covallaria majalis 2, Convolvulus sepium 1, Sanicula europaea +, Galium odoratum +
- Aufn. 5: Y Rhamnus cathartica 1, Y Corylus avellana +, Populus tremula 1, Convolvulus sepium +, Equisetum arvense +
- Aufn. 6: Y Evonymus europaeus +, Rubus idaeus +, Populus tremula 1, Y Arum maculatum 1, Listera ovata +, Galium odoratum +, Equisetum palustre +
- Aufn. 7: Y Evonymus europaeus +, Y Rubus caesius 2, Frangula alnus +, Crataegus monogyna +, Brachypodium silvaticum +, Carex remota 2, Phyteuma spicatum +, Lysimachia nemorum 1, Catharina undulata +, Galium odoratum 1, Rosa spec. +
- Aufn. 8: Y Carpinus betulus 1, Y Carpinus betulus 1, Prunus spinosa +, Crataegus monogyna +, Y Corylus avellana +, Frangula alnus +, Rosa spec. +, Crataegus oxyacantha +, Rubus fruticosus +, Brachypodium silvaticum +, Melica nutans +, Carex alba +, Geum urbanum +
- Aufn. 9: Y Prunus avium 1, Salix caprea 1, Y Crataegus monogyna 1, Populus tremula 2, Y Corylus avellana 1, Picea excelsa +, Lonicera xylosteum 1, Carex flacca 1
- Aufn. 10: Y Picea excelsa 1, Schoenus ferrugineus +, Listera ovata +, Dicranum scoparium +

TABELLE 4 HOCHSTAUDENBESTAENDE

| | | | | | | | | | | | | | | | | | | | |
|---------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Nummer | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| Aufnahmefläche | m ² | 25 | 25 | 25 | 25 | 50 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 10 | 25 | 25 | 25 | 25 | 25 |
| Höhe über Meer | m | 600 | 650 | 480 | 480 | 480 | 485 | 485 | 645 | 450 | 600 | 590 | 630 | 670 | 540 | 590 | 590 | 485 | 480 |
| Exposition | | NW | SE | E | E | E | E | E | W | N | SW | NE | W | N | NE | N | NW | E | E |
| Neigungswinkel | ° | 15 | 15 | 15 | 15 | 12 | 5 | 5 | 15 | 8 | 12 | 10 | 5 | 5 | 15 | 15 | 8 | 10 | 5 |
| Deckungsgrad | ‰ | 60 | 95 | 7 | 80 | 60 | 95 | 90 | 100 | 95 | 90 | 80 | 100 | 80 | 30 | 95 | 70 | 70 | 100 |
| Deckungsgrad | ‰ | 70 | 90 | 5 | + | + | | | | 60 | + | 5 | + | 75 | 50 | 60 | 10 | 10 | + |
| Mittlere Höhe | cm | 30 | 20 | 30 | 60 | 70 | 100 | 80 | 50 | 50 | 30 | 30 | 80 | 30 | 30 | 30 | 20 | 30 | 70 |
| Maximale Höhe | cm | 90 | 80 | 80 | 180 | 150 | 180 | 250 | 160 | 90 | 80 | 180 | 180 | 90 | 100 | 80 | 120 | 100 | 100 |
| Schnitt: ja (+), nein (-) | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| Artenzahl | | 25 | 31 | 28 | 17 | 19 | 13 | 21 | 8 | 22 | 23 | 33 | 22 | 44 | 39 | 48 | 37 | 23 | 21 |

Hochstauden

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <i>Fillipendula ulmaria</i> | 1 | 2 | 1 | + | + | 5 | + | + | 2 | 2 | 2 | 1 | 2 | + | 3 | 2 | 2 | 4 | |
| <i>Cirsium oleraceum</i> | 1 | + | + | + | + | + | + | + | 3 | 3 | 1 | 2 | 3 | 2 | 1 | 1 | | | |
| <i>Lysimachia vulgaris</i> | 2 | 1 | 2 | 2 | 2 | 1 | 2 | + | + | 2 | 1 | 1 | 1 | 3 | 2 | + | 2 | + | |
| <i>Angelica silvestris</i> | + | + | + | + | + | + | + | | | 1 | | | | 1 | 1 | + | | 1 | |
| <i>Lythrum salicaria</i> | | | | 1 | | + | 1 | | | 1 | 1 | | | | | | | + | + |

Quellsumpfarthen

| | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|--|--|--|--|--|---|---|---|---|---|---|--|--|---|---|---|
| <i>Carex davalliana</i> | 1 | 1 | 1 | + | | | | | | + | | | | 1 | + | | | | 1 | |
| <i>Chrysohypnum stellatum</i> | + | 3 | + | + | | | | | | + | + | + | | | 1 | | | + | + | |
| <i>Gentiana asclepiadea</i> | | | | | | | | | | | | | | + | + | | | | + | |
| <i>Orchis traunsteineri</i> | | | | | | | | | | | | | | | | | | | + | |
| <i>Parnassia palustris</i> | | | | | | | | | | | | | | | | | | | + | |
| <i>Bryum pseudotriquetrum</i> | | | | | | | | | | | | | | | | | | | + | |
| <i>Bellidiastrum michelii</i> | | | | | | | | | | | | | | | | | | | 1 | + |
| <i>Eriophorum latifolium</i> | | | | | | | | | | | | | | | | | | | + | |
| <i>Cratoneurum commutatum</i> | | | | | | | | | | | | | + | | | | | | + | |

Trennarten - (gruppen)

| | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <i>Juncus subnodulosus</i> | 3 | 2 | 3 | + | | | | | | | | | | | | | | | | |
| <i>Carex acutiformis</i> | 1 | 3 | 1 | 2 | 2 | 5 | 2 | 4 | 3 | 1 | 2 | 3 | 1 | 1 | 3 | 2 | | | | |
| <i>Phragmites communis</i> | | 3 | 3 | 2 | 5 | | | | | | | | | | | | | | | |
| <i>Scirpus silvaticus</i> | | | | | | | | | | | | | | 5 | 1 | + | + | 2 | 1 | |
| <i>Juncus inflexus</i> | | | | | | | | | | | | | | | + | + | | | | + |

Begleiter

| | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <i>Equisetum maximum</i> | | | | + | | + | + | | 3 | | | | + | 3 | | 2 | + | 2 | 2 | |
| <i>Crepis paludosa</i> | 1 | 2 | 2 | + | | | | | 3 | + | + | + | 1 | 1 | 1 | 1 | 1 | 1 | + | + |
| <i>Valeriana dioeca</i> | 1 | 1 | | | | | | | + | 1 | + | + | | | 2 | 1 | | | | + |
| <i>Caltha palustris</i> | + | | + | | | + | | | + | 2 | | | | | 2 | 1 | 1 | + | | + |
| <i>Primula elatior</i> | | 1 | + | | | | | | | | | 2 | + | 1 | + | 1 | 1 | + | | + |
| <i>Carex panicea</i> | 2 | 3 | + | | | | | | 1 | | | | | | + | + | | | | + |
| <i>Potentilla erecta</i> | + | 1 | + | | | | | | + | | | | 1 | + | + | + | | | | + |
| <i>Mnium affine /seligeri</i> | + | + | 1 | + | | + | | | 2 | | | | + | + | 2 | + | 2 | + | | + |
| <i>Anemone nemorosa</i> | | 1 | | | | | | | + | + | 2 | | | + | + | 1 | 1 | | | |
| <i>Colchicum autumnale</i> | | | | | + | | + | | | + | 2 | + | 1 | + | 2 | 2 | + | + | | + |
| <i>Trollius europaeus</i> | | | | | | | | | | | | | | | 1 | + | 1 | | | |
| <i>Mentha aquatica</i> | 2 | 1 | + | 2 | | + | 1 | | | 1 | | | | | | | | | | 1 |
| <i>Cirsium palustre</i> | 1 | + | + | + | | | + | | | 1 | + | | | | + | | | | | |
| <i>Eupatorium cannabinum</i> | + | | | + | + | | 1 | | | | | | | | | | | | | |
| <i>Galium mollugo</i> | | + | | | | | | | | | 1 | + | + | | | | | | | |
| <i>Molinia coerulea</i> | 1 | 2 | 3 | 2 | 2 | + | + | + | 1 | | | 1 | 2 | 2 | | 2 | 2 | 1 | | |
| <i>Acrocladium cuspidatum</i> | 4 | 3 | 2 | + | + | + | + | | 4 | + | + | | | 1 | 3 | 3 | 2 | 2 | + | |
| <i>Lophocolea bidentata</i> | 1 | | | | | | | | | | | + | 1 | + | | 2 | 1 | | | |
| <i>Convolvulus sepium</i> | | | | + | | 1 | + | | | | | | | | | | | | | + |
| <i>Ranunculus nemorosus</i> | + | + | + | | | | | | | | | | | | + | + | | | | |
| <i>Carex flacca</i> | + | 2 | + | | | | | | | | | | | | | | | | | + |
| <i>Agrostis alba</i> | | | | | | | | | + | | | | | | | + | + | | | |
| <i>Aquilegia vulgaris</i> | | | + | | | | | | | | | | | | + | + | | | | |
| <i>Orchis latifolia</i> | | | | | | | | | | | | | | | + | + | + | | | |
| <i>Equisetum arvense</i> | + | | | | | | | | | + | | | | | | | | | | |
| <i>Poa pratensis</i> | | + | | | | | | | | | | | | | | + | 1 | + | | 1 |
| <i>Typhoides arundinacea</i> | | + | | | | | + | | | | | | | | | | | | | + |
| <i>Scleropodium purum</i> | + | | | | + | | | | | | | | | | | + | | | | |
| <i>Climacium dendroides</i> | + | | | | | | | | | | | | + | 4 | | | 1 | | | |
| <i>Myosotis scorpioides</i> | + | | | | | | | | | | | | | | | | | | | |
| <i>Carex elata</i> | + | + | | 1 | | | | | | + | | | | | | | 2 | + | | + |
| <i>Orchis incarnata</i> | + | | | | | | | | | | | | | | | | | | | + |
| <i>Ctenidium molluscum</i> | 1 | | | + | | | | | | | | | | | + | 1 | 1 | + | | |
| <i>Plasidens adiantoides</i> | + | | + | | | | | | | | | | | | | + | + | + | | |
| <i>Cardamine pratensis</i> | + | | | | | | | | | | | | | | | + | + | | | |
| <i>Epipactis palustris</i> | | + | | | | | | | | | | | | | + | + | + | 1 | | |
| <i>Galium uliginosum</i> | | | | + | | | | | | | | 2 | + | + | | | | | | |
| <i>Thuidium tamariscinum</i> | | | | | + | | | | | | | | + | 2 | | | + | 1 | | |
| <i>Rhytidialphus triquetr.</i> | | | | | | + | | | | | | | | | | + | 2 | + | + | |
| <i>Ajuga reptans</i> | | | | | | | | | | | | | | | | | | | | + |
| <i>Listera ovata</i> | | | | | | | | | | | | | | | + | | | 1 | + | |
| <i>Orchis maculata</i> | | | | | | | | | | | | | | | + | + | | | | + |
| <i>Geum rivale</i> | | | | | | | | | | | | | | | + | | | 1 | | |
| <i>Festuca arundinacea</i> | | | | | | | | | | | | | | | | + | + | + | | + |
| <i>Fraxinus excelsior</i> | + | | 1 | | | + | | + | + | | | | | | | + | + | + | | + |
| <i>Acer pseudoplatanus</i> | | | | + | | + | | | | | | | | 1 | | | | | | + |
| <i>Salix nigricans</i> | + | | | | | | 1 | | | | | | | | | | | | | |
| <i>Frangula alnus</i> | | | | + | | | 1 | | | | | | | | | | | | | + |
| <i>Alnus glutinosa</i> | | | | + | | | 1 | | | | | | | | | | | | | |
| <i>Viburnum opulus</i> | | | | | | | + | | + | | | | | | | | | | | + |

Weitere Arten:

- Aufn. 2: *Carex lepidocarpa* 1, *Drepanocladus revolvens* 2
 Aufn. 3: *Eurhynchium swartzii* +
 Aufn. 5: *Phascum curvicolle* +, *Eurhynchium swartzii* +, *Circaea lutetiana* 1, *Viola silvatica* +
 Aufn. 6: *Valeriana officinalis* +
 Aufn. 9: *Mnium undulatum* +, *Galium palustre* +
 Aufn. 10: *Poa trivialis* +, *Mentha longifolia* 1
 Aufn. 11: *Alopecurus pratensis* 1, *Calamagrostis epigeios* +, *Brachythecium pinnatum* +, *Veronica anagallis aquatica* +, *Phyteuma spicatum* +, *Heracleum sphondylium* +, *Urtica dioeca* +, *Cirsium arvense* 1, *Epilobium obscurum* +, *Prunus avium* +
 Aufn. 12: *Mnium undulatum* +, *Sonchus asper* +
 Aufn. 13: *Holcus lanatus* +, *Festuca rubra* 1, *Briza media* +, *Carex paniculata* +, *Carex pallascens* +, *Luzula campestris* +, *Lathyrus pratensis* +, *Linum catharticum* +, *Vicia cracca* +, *Lotus corniculatus* +, *Euphorbia cyparissias* +, *Viola canina* +
 Aufn. 14: *Cirriphyllum piliferum* +, *Lathyrus pratensis* +, *Equisetum limosum* 1
 Aufn. 15: *Festuca rubra* +, *Deschampsia caespitosa* +, *Poa trivialis* +, *Eriophorum angustifolium* +, *Polygonatum multiflorum* +, *Paris quadrifolia* +, *Plagiochila asplenoides* 1, *Hylocomium splendens* +, *Mnium undulatum* +, *Camptothecium nitens* +, *Lysimachia nemorum* +, *Geranium robertianum* 1, *Phyteuma spicatum* +
 Aufn. 16: *Melica nutans* +, *Picea excelsa* +, *Phyteuma spicatum* +
 Aufn. 17: *Solanum dulcamara* 1, *Evonymus europaeus* +, *Eurhynchium swartzii* +, *Eurhynchium striatum* +
 Aufn. 18: *Agropyron repens* 1, *Brachypodium pinnatum* +, *Carex hirta* 1

TABELLE 1

VEGETATION DER QUELLFLUREN

| Nummer | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|----------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Aufnahmefläche | m ² | 0.5 | 1.5 | 0.5 | 1 | 1.5 | 0.5 | 4 | 5 | 5 | 0.5 | 10 | 1 | 1 | 6 | 6 | 10 | 3 | 1 | 10 | 1 | 10 | 10 | 15 | 8 |
| Höhe über Meer | m | 720 | 725 | 450 | 680 | 450 | 450 | 480 | 430 | 640 | 680 | 720 | 460 | 430 | 430 | 380 | 370 | 530 | 680 | 370 | 550 | 480 | 370 | 490 | 680 |
| Exposition | | N | N | NE | SW | NE | NE | NW | NW | E | S | N | E | N | N | N | E | SW | N | NW | W | N | NW | SE | |
| Neigungswinkel | ° | 85 | 75 | 10 | 5 | 20 | 20 | 35 | 2 | 30 | 5 | 40 | 40 | 10 | 80 | 20 | 30 | 7 | 5 | 25 | 15 | 20 | 20 | 5 | 25 |
| Deckungsgrad \checkmark | % | | | | | | | | | | | | | | | | | | | | | | | | |
| Deckungsgrad ∇ | % | | | | | | | | | | | | | | | | | | | | | | | | |
| Deckungsgrad ∇' | % | 85 | 80 | 80 | 70 | 50 | 90 | 75 | 100 | 95 | 100 | 95 | 70 | 100 | 100 | 95 | 90 | 80 | 95 | 60 | 80 | 5 | 100 | 100 | 90 |
| Maximale Höhe \checkmark | cm | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximale Höhe ∇ | cm | | | | | | | | | | | | | | | | | | | | | | | | |
| Artenzahl | | 7 | 8 | 8 | 9 | 13 | 18 | 19 | 27 | 9 | 8 | 15 | 4 | 8 | 8 | 15 | 11 | 14 | 17 | 22 | 18 | 19 | 18 | 18 | 21 |

F R N

Kennzeichnende Moosarten

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eucladium verticillatum | 5 5 1 | 5 | 4 | 2 | 3 | 3 | 5 | 1 | | | | | | | | | | | | | | | | | |
| Cratoneurum commutatum | 5 5 2 | | | | | | | | | | | | | | | | | | | | | | | | |

Kalkzeigende Moose

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pellia calycina | 5 5 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Catoneurum com. falcatum | 5 5 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Philonotis calcarea | 5 5 2 | | | | | | | | | | | | | | | | | | | | | | | | |

Vorwiegend basenzeigende Moose

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bryum pseudotriquetrum | 5 4 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Chrysohypnum stellatum | 5 4 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Drepanocladus intermedius | 5 4 2 | | | | | | | | | | | | | | | | | | | | | | | | |

Trennarten

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Leiocolea mülleri | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Scytonema mirabile | 5 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Sesleria coerulea | 2 | | | | | | | | | | | | | | | | | | | | | | | | |

Basen- /Magerkeitszeiger

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pinguicula vulgaris | 4w 4 2 | + | | | | | | | | | | | | | | | | | | | | | | | |
| Tofieldia calyculata | 4w 4 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Primula farinosa | 4w 4 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Schoenus nigricans | 4w 4 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bellidiastrum michelii | 3w 4 2 | | | | | | | | | | | | | | | | | | | | | | | | |

Waldpflanzen

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Deschampsia caespitosa | 4w 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Brachypodium silvaticum | 4 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Primula elatior | 3 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Geranium robertianum | 3 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanium galeobdolon | 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Equisetum arvense | 3w 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mnium undulatum | 4 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hedera helix | 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |

Begleiter

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Molinia coerulea | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agrostis stolonifera | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fissidens adiantoides | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eupatorium cannabinum | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carex flacca | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phragmites communis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crepis paludosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Equisetum maximum | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carex acutiformis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Caltha palustris | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mnium affine /seligeri | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brachythecium rivulare | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acrocladium cuspidatum | | | | | | | | | | | | | | | | | | | | | | | | | |
| \checkmark Acer pseudoplatanus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fraxinus excelsior | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sambucus nigra | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lonicera xylosteum | | | | | | | | | | | | | | | | | | | | | | | | | |
| ∇ Acer pseudoplatanus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fraxinus excelsior | | | | | | | | | | | | | | | | | | | | | | | | | |
| Picea excelsa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ligustrum vulgare | | | | | | | | | | | | | | | | | | | | | | | | | |
| \checkmark Acer pseudoplatanus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fraxinus excelsior | | | | | | | | | | | | | | | | | | | | | | | | | |

\checkmark Strauchschicht

∇ Krautschicht

∇' Moosschicht

K Keimling

Weitere Arten. Vitalität meist o

- Aufn. 1: Sorbus aucuparia +
- Aufn. 2: Plagiochila asplenioides +
- Aufn. 6: Ctenidium molluscum +, Cratoneurum filicinum +, Parnassia palustris +, Linum catharticum +, Fragaria vesca +, Rhamnus cathartica +
- Aufn. 7: Parnassia palustris +, Ctenidium molluscum +, Molinia litoralis +
- Aufn. 8: Calamagrostis varia +, Carex davalliana +, Juncus subnodulosus +, Potentilla erecta +, Equisetum palustre +, Pinus silvestris +
- Aufn. 11: Eurhynchium striatum +, Calamagrostis varia +
- Aufn. 13: Asplenium viride +, Circaea lutetiana +
- Aufn. 15: Frangula alnus +, Solanum dulcamara +
- Aufn. 17: Carex silvatica +, Equisetum hiemale +, Angelica silvatica +
- Aufn. 18: Rhytidadelphus triquetrum +, Sorbus aucuparia +
- Aufn. 19: Filipendula ulmaria +, Phyllitis scolopendrium +
- Aufn. 20: Fragaria vesca +, Festuca gigantea +, Veronica beccabunga +, Mnium cuspidatum +, Marchantia polymorpha +
- Aufn. 21: Carex pendula 1, Viola silvatica Gr. +, Anemone nemorosa +, Fagus silvatica +
- Aufn. 22: Quercus spec. +
- Aufn. 23: Cornus sanguinea +
- Aufn. 24: Trollius europaeus +, Oxalis acetosella +, Rubus fruticosus +, Viburnum opulus +

TABELLE 6 HEILZIEF - TRESPENRASEN

| | | | | | | | | | | | | | |
|---------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Nunmer | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Aufnahmefläche | m ² | 25 | 25 | 25 | 25 | 20 | 25 | 15 | 20 | 20 | 25 | 25 | 25 |
| Höhe über Meer | m | 580 | 490 | 630 | 630 | 625 | 615 | 570 | 565 | 610 | 580 | 640 | 580 |
| Exposition | | S | SE | SE | SE | E | S | S | SE | SE | NW | N | |
| Neigungswinkel | ° | 10 | 10 | 2 | 2 | 5 | 20 | 20 | - | 35 | 30 | 20 | |
| Deckungsgrad | % | 85 | 95 | 100 | 95 | 100 | 100 | 100 | 100 | 95 | 95 | 100 | 90 |
| Deckungsgrad | % | 20 | 50 | 80 | 1 | 20 | + | 1 | 5 | 20 | 10 | + | |
| Mittlere Höhe | cm | 20 | 35 | 15 | 20 | 40 | 35 | 60 | 50 | 60 | 30 | 50 | 40 |
| Maximale Höhe | cm | 140 | 60 | 70 | 70 | 120 | 130 | 150 | 120 | 190 | 100 | 140 | 120 |
| Schnitt: ja (+), nein (-) | | + | + | - | - | - | - | - | - | - | - | - | - |
| Artenszahl | | 66 | 70 | 53 | 63 | 59 | 52 | 44 | 48 | 58 | 50 | 34 | 28 |

| | | | |
|--|---|-----|---|
| | F | R | N |
| | 2 | 3,5 | 2 |

| | | | |
|----------------------------|---|-----|---|
| Kennzeichnende Artengruppe | 2 | 3,5 | 2 |
| Helianthemum nummularium | 1 | 4 | 2 |
| Daucus carota | 2 | 4 | 2 |
| Bronus erectus | 2 | 4 | 2 |
| Salvia pratensis | 2 | 4 | 2 |

| | | | |
|----------------------|---|---|---|
| Sanguisorba minor | 2 | 4 | 2 |
| Carex verna | 2 | 3 | 2 |
| Knautia arvensis | 2 | 3 | 2 |
| Origanum vulgare | 3 | 3 | 2 |
| Thymus serpyllum | 2 | 3 | 2 |
| Hippocrepis comosa | 2 | 4 | 2 |
| Prunella grandiflora | 2 | 4 | 2 |
| Satureja vulgaris | 2 | 3 | 2 |
| Pimpinella saxifraga | 2 | 3 | 2 |
| Koeleria cristata | 2 | 3 | 2 |
| Galium verum | 2 | 4 | 2 |
| Polygala chamaebuxus | 2 | 4 | 2 |
| Silium silaus | 3 | 4 | 2 |
| Stachys officinalis | 3 | 3 | 3 |

| | | | |
|----------------------|----|---|---|
| Wechsellotckenzeiger | 2w | 4 | 2 |
| Peucedanum cervaria | 2w | 4 | 2 |
| Anthericum ranosum | 2w | 4 | 2 |

| | | | |
|--------------------------|------|-----|-----|
| Wechselfeuchtezeiger | 3,2w | 3,7 | 2,5 |
| Molinia littoralis | 3w | 4 | 3 |
| Equisetum arvense | 3w | 3 | 3 |
| Equisetum maximum | 4w | 4 | 3 |
| Carex flacca | 3w | 4 | 3 |
| Rhinanthus angustifolius | 3w | 4 | 2 |
| Succisa pratensis | 3w | 3 | 2 |
| Gentiana asclepiadea | 3w | 4 | 3 |
| Serratula tinctoria | 3w | 4 | 2 |
| Gyanadenia conopsea | 3w | 4 | 2 |
| Calamagrostis varia | 3w | 4 | 2 |
| Carex panicea | 4w | 3 | 2 |
| Festuca arundinacea | 4w | 4 | 4 |

| | | | |
|----------------------|---|---|---|
| Säurezeiger | 3 | 2 | 2 |
| Pteris aquilina | 3 | 2 | 2 |
| Hylocomium splendens | 3 | 2 | 2 |

Begleiter

| | | | | | | | | | | | | |
|--------------------------|---|-----|---|---|---|---|---|---|---|---|---|-------|
| Carex montana | 1 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 1 | + |
| Plantago media | + | + | 2 | + | + | + | + | 1 | 1 | 1 | 1 | + |
| Viola hirta | + | + | + | + | + | + | + | 1 | 1 | 1 | 1 | + |
| Euphthalmum salicifolium | 1 | + | + | + | + | + | + | + | + | + | + | + |
| Achillea millefolium | 1 | + | + | + | + | + | + | + | + | + | + | + |
| Campanula rotundifolia | + | + | + | + | + | + | + | + | + | + | + | + |
| Polygala vulgaris | + | + | + | + | + | + | + | + | + | + | + | + |
| Poa angustifolia | + | + | + | + | + | + | + | + | + | + | + | + |
| Euphorbia cyparissias | + | + | 1 | + | + | + | + | 1 | 1 | + | + | + |
| Briza media | 1 | 1 | 2 | 2 | 1 | 1 | 1 | + | + | 1 | + | + |
| Trifolium montanum | + | + | 2 | 2 | 1 | 1 | + | + | + | + | + | + |
| Festuca ovina | + | + | 1 | + | + | + | + | 1 | + | + | + | + |
| Ocnis spinosa | + | + | 1 | + | + | + | + | 1 | + | + | + | + |
| Scabiosa columbaria | + | + | 1 | + | + | + | + | 1 | + | + | + | + |
| Brachypodium pinnatum | 1 | 1 | 1 | 1 | 1 | + | 2 | 2 | 2 | 1 | 5 | 5 |
| Trifolium medium | + | + | 2 | 2 | 1 | 1 | + | + | + | + | + | + |
| Plantago lanceolata | + | + | 1 | 2 | + | + | + | + | + | + | 1 | + |
| Aquilegia vulgaris | + | + | 1 | 1 | 2 | + | + | + | + | + | 1 | 1 |
| Lotus corniculatus | 1 | 1 | 1 | 1 | + | + | + | + | + | + | 2 | + |
| Chrysanthemum leucanth. | + | + | 1 | + | + | + | + | + | + | + | + | + |
| Centaurea jacea | 1 | 1 | 1 | + | + | + | + | + | + | 1 | + | + |
| Trifolium pratense | + | + | 1 | + | + | + | + | + | + | + | + | + |
| Holcus lanatus | + | + | 1 | + | + | + | + | + | + | + | + | + |
| Anthoxanthum odoratum | 1 | 1 | 1 | + | + | + | + | + | + | + | + | + |
| Vicia cracca | + | + | + | 1 | + | + | + | + | + | + | + | + |
| Colchicum autumnale | + | + | 1 | + | + | + | + | + | + | + | 1 | 1 |
| Leontodon hispidus | + | + | 1 | 1 | + | + | + | + | + | + | 1 | + |
| Lathyrus pratensis | + | + | + | + | 1 | 1 | + | + | + | + | + | (*) 1 |
| Prunella vulgaris | + | + | 1 | + | + | + | + | + | + | + | + | + |
| Ranunculus nemorosus | + | + | 2 | 2 | + | 1 | + | + | + | + | 2 | + |
| Potentilla erecta | + | + | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | + | + |
| Dactylis glomerata | 1 | 1 | 1 | + | + | + | + | + | + | + | + | + |
| Galium mollugo | + | + | 1 | + | + | + | + | + | + | + | + | 1 |
| Listera ovata | + | (+) | + | + | + | + | + | + | + | + | + | + |
| Linum catharticum | + | + | 1 | + | + | + | + | + | + | + | + | + |
| Festuca rubra | 1 | + | + | + | + | + | + | + | + | + | + | + |
| Epipactis palustris | + | + | + | + | + | + | + | + | + | + | + | + |
| Agrostis stolonifera | + | + | + | + | + | + | + | + | + | + | + | 1 |
| Hypericum perforatum | + | + | + | + | + | + | + | + | + | + | + | + |
| Primula veris | + | + | 1 | + | + | + | + | + | + | + | + | + |
| Trisetum flavescens | 1 | + | + | + | + | + | + | + | + | + | + | 1 |
| Medicago lupulina | + | + | + | + | + | + | + | + | + | + | + | + |
| Pimpinella major | + | + | + | + | + | + | + | + | + | + | + | 1 |
| Rhynchospora triget. | 1 | 2 | 2 | 1 | + | + | + | + | + | 2 | 1 | + |
| Scleropodium purum | 1 | 1 | + | 1 | 2 | + | + | + | + | 1 | + | + |
| Ctenidium molluscum | 3 | + | + | + | + | + | + | + | + | + | + | 2 |
| Thuidium delic./philib. | 2 | 2 | + | + | + | + | + | + | + | + | + | + |
| Mnium affine /seligeri | + | + | 1 | + | + | + | + | + | + | + | + | 1 |
| Fissidens adiantoides | + | + | + | + | 1 | + | + | + | + | + | + | + |
| Acrocladium cuspidatum | + | + | + | + | + | + | + | + | + | + | + | 1 |
| Brachythecium rutabulum | + | + | + | + | + | + | + | + | + | + | + | + |

Weitere Arten

- Aufn. 1: Avena pubescens +, Bellis perennis +, Chrysophyllum chrysophyllum 2, Clematis vitalba +, Chrysanthemum corymbosum 1, Cardamine pratensis +, Euphrasia rostkoviana +, Agrimonia eupatoria +, Acer pseudoplatanus +, Prunus spinosa +, Centaurea scabiosa 1, Geranium sanguineum +, Ranunculus bulbosus +
- Aufn. 2: Phragmites communis 1°, Arrhenaterum elatius +, Carex tomentosa 1, Allium vineale +, Heraclium sphondylium +, Ajuga reptans 1, Picris hieracioides +, Hylocomium brevirostre +, Mnium undulatum +, Rhytidadelphus rugosus +, Carex ornithopoda +
- Aufn. 3: Picris hieracioides +, Carex ornithopoda +, Galium pumilum 1, Melittis melissophyllum 1, Viola silvatica +, Pleurozium schreberi 4, Dicranum scoparium +, Tamus communis +, Acer pseudoplatanus +, Juniperus communis +, Anthyllis vulneraria +, Phyteuma orbiculare +
- Aufn. 4: Lysimachia vulgaris +, Tofieldia calyculata +, Polygala anarella +, Rhytidadelphus rugosus 1, Galium pumilum +, Schoenus nigricans +, Inula salicina 1, Cladonia furcata +
- Aufn. 5: Bellidistrum michelii +, Arrhenaterum elatius +, Entodon orthocarpus +, Crepis paludosa 1°, Knautia silvatica 1, Vincetoxicum officinale +
- Aufn. 6: Molinia caerulea 1, Dicranum scoparium +, Mnium cuspidatum +, Fraxinus excelsior +
- Aufn. 7: Selinum carvifolium +, Hypericum montanum +, Frunus spinosa +, Phragmites communis 1°
- Aufn. 8: Agrimonia eupatoria +, Hypericum montanum +, Pulicaria dysenterica +, Cirsium palustre +
- Aufn. 9: Carex hostiana +, Lysimachia vulgaris +, Tofieldia calyculata +, Euphrasia rostkoviana 1, Cirsium oleraceum +, Acer pseudoplatanus +, Fraxinus excelsior +, Pinus silvestris +
- Aufn. 10: Molinia caerulea +, Cirsium oleraceum 1°, Juncus inflexus 1, Epipactis palustris +, Paris quadrifolia +, Polygonatum multiflorum +, Anemone nemorosa +, Angelica silvestris 1, Filipendula ulmaria +, Hypericum hirsutum +, Equisetum palustre +, Lophocolea bidentata 2, Mnium undulatum +, Fraxinus excelsior 1
- Aufn. 11: Angelica silvestris +, Lophocolea bidentata +, Mnium undulatum +, Phyteuma spicatum +, Acer pseudoplatanus +, Fraxinus excelsior +
- Aufn. 12: Cardamine pratensis 1

TABELLE 5 ENZIAN-PFEIFENGRASWIESE

| Nummer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | |
|---------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Auflandfläche | m ² | 25 | 15 | 25 | 10 | 10 | 4 | 25 | 20 | 10 | 35 | 25 | 25 | 25 | 25 | 25 | 25 | 20 | 25 | 20 | 25 | 25 | |
| NbH über Meer | m | 500 | 490 | 470 | 560 | 580 | 680 | 500 | 625 | 780 | 670 | 740 | 645 | 560 | 510 | 620 | 710 | 480 | 585 | 465 | 480 | 470 | |
| Exposition | | W | S | N | SW | W | W | E | SW | SW | N | N | NE | W | W | E | N | E | NE | N | E | NE | |
| Neigungswinkel | ° | 20 | 10 | 12 | 5 | 10 | 10 | 18 | 20 | 15 | 25 | 18 | 8 | 10 | 10 | 10 | 18 | 8 | 25 | 20 | 3 | 15 | |
| Deckungsgrad | % | 95 | 95 | 80 | 100 | 100 | 95 | 75 | 95 | 90 | 95 | 100 | 90 | 95 | 100 | 85 | 95 | 85 | 100 | 90 | 80 | 100 | |
| Deckungsgrad | % | 80 | 1 | 50 | 5 | 60 | 50 | 50 | 30 | 10 | 40 | 80 | 95 | 40 | 10 | 90 | 80 | 100 | 50 | 25 | 20 | 10 | |
| Relative NbH | cm | 20 | 15 | 20 | 30 | 30 | 30 | 15 | 20 | 15 | 20 | 20 | 15 | 20 | 15 | 20 | 15 | 20 | 25 | 30 | 25 | 40 | |
| Maximale NbH | cm | 90 | 70 | 80 | 100 | 100 | 90 | 50 | 70 | 200 | 70 | 60 | 8 | 70 | 70 | 50 | 90 | 150 | 70 | 100 | 150 | 100 | |
| Schnitt: ja (+), nein (-) | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Artenzahl | | 57 | 59 | 59 | 34 | 58 | 62 | 53 | 60 | 49 | 41 | 64 | 48 | 51 | 44 | 54 | 50 | 37 | 37 | 48 | 45 | 33 | 43 |

| Kennzeichnende Artengruppe | F | K | N |
|----------------------------|---|---|---|
| 3.6 3.3 2.1 | 1 | 3 | 2 |
| Molinia caerulea | 1 | 3 | 2 |
| Carex panicea | + | + | + |
| Epigaeia palustris | + | + | + |
| Epilobium palustre | + | + | + |
| Succisa pratensis | + | + | + |

| | | | |
|-----------------------|---|---|---|
| Gentiana scabra | + | + | + |
| Banunculus nemorosus | + | + | + |
| 3.2 3.3 | 1 | 1 | 1 |
| Phlox subulata | + | + | + |
| Cirsium alboscapulare | + | + | + |
| Angelica silvestris | + | + | + |
| Trollius europaeus | + | + | + |
| Valeriana dioica | + | + | + |
| Lysimachia vulgaris | + | + | + |
| 2.3 3.2 | 1 | 1 | 1 |
| Centaurea jacea | + | + | + |
| Fumaria vulgaris | + | + | + |
| Leontodon hispidus | + | + | + |
| Festuca rubra | + | + | + |
| Vicia cracca | + | + | + |
| Lathyrus pratensis | + | + | + |
| Stempea officinalis | + | + | + |
| Colchicum autumnale | + | + | + |
| Plantago lanceolata | + | + | + |
| Lotus corniculatus | + | + | + |
| Aquilegia vulgaris | + | + | + |

| Wasserspeicher (süssig) | 2 | 3 | 3 | 7 |
|-------------------------|---|---|---|---|
| Galium mollugo | + | + | + | + |
| Chrysanthemum leucanth. | + | + | + | + |
| Dactylis glomerata | + | + | + | + |
| 2.3 3.7 2.2 | 2 | 1 | 2 | 1 |
| Carex montana | + | + | + | + |
| Hippocrepis comosa | + | + | + | + |
| Plantago media | + | + | + | + |
| Viola hirta | + | + | + | + |
| Scabiosa columbaria | + | + | + | + |
| Avena pubescens | + | + | + | + |
| Plagiolista major | + | + | + | + |
| Thymus serpyllum | + | + | + | + |
| Poa annuatifolia | + | + | + | + |
| Bromus erectus | + | + | + | + |

| Feuchtwasser- und Nässezeiger | 4 | 3 | 3 | 9 | 2 |
|-------------------------------|---|---|---|---|---|
| Carex diwalliana | + | + | + | + | + |
| Carex hircynica | + | + | + | + | + |
| Scirpus lacustris | + | + | + | + | + |
| Parnassia palustris | + | + | + | + | + |
| Juncus articulatus | + | + | + | + | + |
| Trifolium calyculatum | + | + | + | + | + |
| Chrysosplenium stellatum | + | + | + | + | + |
| Trigonotis litoralis | + | + | + | + | + |
| Arctostaphylos uva-ursi | + | + | + | + | + |
| Schoenus nigricans | + | + | + | + | + |
| Schoenus ferugineus | + | + | + | + | + |
| Juncus subnodulosus | + | + | + | + | + |
| Montane Arten | + | + | + | + | + |
| Hypochaeris glabra | + | + | + | + | + |
| Shiandrus angustifolius | + | + | + | + | + |

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Begleiter | 3 | 2 | + | 2 | 2 | + | 2 | 1 | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bromus erectus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bromus tectorum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carex flacca | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gymnadenis conopsea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Potentilla erecta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Linum catharticum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Polygala amarella | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brachypodium pinnatum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium aparine | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galium verum | + | + | + | +</ | | | | | | | | | | | | | | | | | | |

