

Vegetationsaufnahmen  
von Wald-Beständen  
des Thüringer Waldes.

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Die Böden sämtlicher aufgenommenen Bestände sind von Silikatgesteinen gebildet.

Tabelle 1

Piceetum summo-hercynicum

Aufnahme 1 - 8: sphagnetosum

" 1 - 3: Variante von Vaccinium  
oxycoccos

" 4 - 8: Typische Variante

" 9 - 11: typicum

| Nr. | Umgebung von | Aufnahmeort    | Aufnahmestelle  | Hh. Ng. |     | Fl.      |
|-----|--------------|----------------|-----------------|---------|-----|----------|
|     |              |                |                 | mm      | Ep. |          |
| 1.  | Oberhof      | Beerbergmoore  | 500 m S x 930   | 960     | -   | 200      |
| 2.  | "            | "              | 400 m S x 930   | 960     | -   | 200      |
| 3.  | "            | "              | 200 m NW x 982  | 880     | -   | 200      |
| 4.  | Oberhof      | Beerbergginfel | Bei x 982       | 980     | -   | 1200     |
| 5.  | "            | Schneekopf     | 200 m NNW x 967 | 960     | -   | 600      |
| 6.  | "            | Schmücke       | 200 m SSO x 967 | 950     | 2   | SO 1000  |
| 7.  | "            | Schneekopf     | 900 m W x 967   | 890     | 1   | NNW 1000 |
| 8.  | "            | Fichtenkopf    | 600 m N x 824   | 850     | 2   | N 800    |
| 9.  | Oberhof      | Fichtenkopf    | 700 m NNW x 824 | 890     | -   | 800      |
| 10. | "            | "              | 250 m SSO x 965 | 910     | 1   | SO 1000  |
| 11. | "            | Beerberg       | 300 m SO x 982  | 950     | 1   | SO 800   |

| Nr. | Bedeckung % |    |    |    |    | Hh. | Stuf. | Al. | Tgr. | Hum.                | Krü.       | Kgr. | Sk. | HA   |
|-----|-------------|----|----|----|----|-----|-------|-----|------|---------------------|------------|------|-----|------|
|     | B1          | B2 | S  | K  | M  | m   | cm.   | Gr. | Gr.  | Fa.                 | Gr.        | Gr.  | %   | cm   |
| 1.  | -           | 55 | 6  | 15 | 60 | 12  | 54    |     | t    | Schlecht            | zersetzter |      |     | Torf |
| 2.  | -           | 60 | 4  | 15 | 35 | 10  | 74    | 3/4 | t    | "                   | "          | "    | "   | "    |
| 3.  | -           | 65 | 10 | 15 | 30 | 11  | 48    | 3   | t    | "                   | "          | "    | "   | "    |
| 4.  | 60          | -  | -  | 80 | 8  | 20  | 122   | 4   |      | + 1) 15 cm Rohhumus |            |      |     |      |
| 5.  | 60          | 5  | 2  | 40 | 30 | 22  | 106   | 4   |      | + 15 cm             | "          |      |     |      |
| 6.  | 60          | -  | -  | 25 | 20 | 22  | 117   | 4   |      | + 15 cm Rohhumus    |            |      |     |      |
| 7.  | 70          | -  | -  | 40 | 25 | 27  | 126   | 4   |      | 2 g                 | 0          | 3    | 3   | 7    |
| 8.  | 65          | -  | -  | 25 | 12 | 23  | 109   | 3/4 |      | 2 gb                | 0/1        | 2/3  | 2   | 7    |
| 9.  | 60          | -  | .1 | 60 | 10 | 20  | 100   | 3/4 |      | 2 gb                | 0/1        | 2/3  | -   | 6    |
| 10. | 60          | -  | -  | 60 | 15 | 20  | 103   | 3/4 |      | 3 g                 | 0/1        | 3    | 5   | 5    |
| 11. | 65          | -  | -  | 80 | 5  | 18  | 116   | 4   |      | 2 g                 | 0/1        | 2/3  | 10  | 8    |

1) + mehr als

2) HA Mächtigkeit der Humusschicht, die dem Mineralboden  
aufliegt in cm.

Differentialarten der Assoziationen:

+ Differentialarten des Piceetum summo-hercynicum

| Charakterarten:           | 1 | 2 | 3 | . | 4 | 5 | 6 | 7 | 8 | . | 9 | b | 11 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Picea excelsa B1          | . | . | . | . | 4 | 4 | 4 | 4 | 4 | . | 4 | 4 | 4  |
| " " B2                    | 4 | 4 | 4 | . | 1 | . | . | . | . | . | . | . | .  |
| " " S                     | 2 | 2 | 1 | . | 1 | . | . | . | . | . | x | . | .  |
| " " K                     | x | . | x | . | x | x | x | x | x | . | x | x | x  |
| Rhytidiadelphus loreus    | 2 | 2 | . | . | 1 | 2 | 1 | 2 | 1 | . | 1 | x | .  |
| +Plagiothecium undulatum  | 2 | 1 | 1 | . | 1 | 1 | 1 | 1 | 1 | . | . | . | .  |
| +Pleuroschisma trilobatum | 2 | 2 | 2 | . | x | 2 | x | x | . | . | . | . | .  |

Differentialarten:

Sphagnum acutifolium-Gr.  
Polytrichum commune  
Molinia coerulea

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 2 | . | 1 | 1 | x | 1 | x | . | . | . | . | . |
| x | 1 | x | . | x | 1 | x | 1 | x | . | . | . | . | . |
| . | . | . | . | . | . | x | . | . | . | . | . | . | . |

Vaccinium oxycoccos  
Eriophorum vaginatum

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| x | x | x | . | . | . | . | . | . | . | . | . | . | . |
| x | . | x | . | . | . | . | . | . | . | . | . | . | . |

Verbandscharakterarten:

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +Calamagrostis villosa | x | 1 | . | . | x | 1 | 1 | 2 | 1 | . | 1 | x | 1 |
| Lycopodium annotinum   | . | . | 1 | . | 1 | 1 | x | x | x | . | . | . | . |

Ordnungscharakterarten:

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +Vaccinium vitis idaea | 1 | 1 | x | . | x | x | 1 | . | . | . | x | 1 | x |
| Calypogeia spec.       | 1 | x | 1 | . | x | x | . | x | . | . | . | . | . |
| Trientalis europaea    | . | . | . | . | . | . | . | . | x | . | x | . | . |

Klassencharakterarten:

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vaccinium myrtillus    | 2 | 2 | 2 | . | 2 | 2 | 2 | 2 | 1 | . | 2 | 2 | 3 |
| Dicranum scoparium     | 2 | 2 | 2 | . | 1 | 2 | 2 | 1 | 2 | . | 2 | 2 | 1 |
| Deschampsia flexuosa   | 2 | 2 | 2 | . | 4 | 3 | 2 | 3 | 2 | . | 4 | 4 | 4 |
| Entodon Schreberi      | x | 1 | x | . | x | . | 1 | x | 1 | . | 1 | 1 | x |
| Polytrichum attenuatum | 1 | . | . | . | 1 | 1 | 2 | 2 | 1 | . | 1 | 1 | 1 |
| Dryopteris austriaca   | x | . | . | . | x | x | x | x | x | . | x | x | . |
| Plagiothecium spec.    | . | . | . | . | 1 | x | 1 | x | 1 | . | 1 | 1 | x |
| Hylacomium splendens   | x | x | x | . | x | x | x | . | . | . | . | . | . |
| +Blechnum spicant      | . | . | . | . | . | x | x | x | . | . | x | x | . |
| Galium saxatile        | . | . | . | . | x | . | . | x | . | . | x | . | x |
| Sorbus aucuparia B1    | . | . | . | . | . | . | x | . | . | . | . | . | . |
| " " S                  | . | . | . | . | . | x | x | . | . | . | . | . | . |
| " " K                  | . | . | . | . | . | . | . | . | . | . | x | x | . |
| Leucobryum glaucum     | . | . | . | . | . | x | . | . | . | . | x | x | . |
| Lepidozia reptans      | . | . | . | . | x | . | . | x | . | . | . | . | x |
| Lycopodium clavatum    | . | . | . | . | . | . | . | . | . | . | x | x | . |
| Luizula nemorosa       | . | . | . | . | . | . | . | . | x | . | x | . | . |

| Begleiter:           | 1 | 2 | 3 | . | 4 | 5 | 6 | 7 | 8 | . | 9 | 10 | 11 |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Cladonia spec.       | x | x | x | . | . | x | x | x | x | . | . | .  | x  |
| Cetraria islandica   | . | . | . | . | . | . | x | . | . | . | 1 | 1  | x  |
| Luzula pilosa        | . | . | . | . | . | . | . | x | x | . | x | .  | .  |
| Lophocolea bidentata | x | . | . | . | x | . | . | . | x | . | . | .  | .  |
| Fagus silvatica Bl   | . | . | . | . | . | . | . | . | 1 | . | x | .  | .  |
| " " S                | . | . | . | . | . | . | . | . | . | . | x | .  | .  |
| Oxalis acetosella    | . | . | . | . | 1 | . | . | 1 | . | . | . | .  | .  |
| Carex muricata s.l.  | . | . | . | . | x | . | . | . | x | . | . | .  | .  |

Außerdem:

Klassencharakterarten: Calluna vulgaris x (11).

Begleiter: Carex pilulifera x (9).

Tabelle 2

Piceetum alto-hercynicum  
typicum

| Nr. | Umgebung von | Aufnahmeort    | Aufnahmestelle  | Hh. m | Ng. o | Fl. Ep. m <sup>2</sup> |
|-----|--------------|----------------|-----------------|-------|-------|------------------------|
| 1.  | Schmiedefeld | Auf dem Hückel | 100 m NW x 746  | 740   | -     | -1000                  |
| 2.  | "            | "              | 200 m S x 746   | 750   | -     | -1000                  |
| 3.  | "            | Am Hückel      | 600 m WSW x 746 | 660   | 2 WNW | 1000                   |
| 4.  | Vesser       | Vessertal      | 1000 m NW x 734 | 600   | 1 WNW | 800                    |

| Nr. | Bedeckung |    |   |    |    | Höchstevgsch. |     |           | Boden-Eigenschaften |             |          |     |     |          |     | HA<br>cm |
|-----|-----------|----|---|----|----|---------------|-----|-----------|---------------------|-------------|----------|-----|-----|----------|-----|----------|
|     | Bl        | B2 | S | K  | M  | Hh.Stuf.      |     | Al.<br>Gr | Tgr.                | Hum.<br>Gr. | Krü.Kgr. |     |     | Sk.<br>% |     |          |
|     |           |    |   |    |    | m             | cm  |           |                     |             | Gr.      | Gr. | Gr. |          | %   |          |
| 1.  | 75        | 2  | - | 4  | 2  | 28            | 129 | 4         | zt                  | 2/3         | bs       | 1/2 | 3   | 15       | 1,5 |          |
| 2.  | 70        | 3  | - | 2  | 2  | 29            | 137 | 4         |                     | 2           | db       | 1   | 3   | 2        | 2   |          |
| 3.  | 60        | 3  | - | 10 | 15 | 30            | 113 | 4         |                     | 2           | db       | 0/1 | 3   |          | 8   |          |
| 4.  | 75        | 3  | 2 | 5  | 2  | 33            | 129 | 4         |                     | 2           | db       | 1   | 3   | 2        | 6,5 |          |

Charakterarten:

|                               | 1 | 2 | 3 | 4 |
|-------------------------------|---|---|---|---|
| <i>Picea excelsa</i> Bl       | 3 | 3 | 4 | 2 |
| " " S                         | . | . | . | x |
| " " K                         | x | x | x | x |
| <i>Rhytidiadelphus loreus</i> | x | . | 1 | . |

Verbandscharakterarten:

|                             |   |   |   |   |
|-----------------------------|---|---|---|---|
| <i>Lycopodium annotinum</i> | x | x | x | x |
|-----------------------------|---|---|---|---|

Klassencharakterarten:

|                               |   |   |   |   |
|-------------------------------|---|---|---|---|
| <i>Deschampsia flexuosa</i>   | 1 | 1 | 2 | 1 |
| <i>Dicranum scoparium</i>     | 1 | 1 | 2 | x |
| <i>Polytrichum attenuatum</i> | 1 | 1 | x | 1 |
| <i>Vaccinium myrtillus</i>    | x | x | 2 | x |
| <i>Dryopteris austriaca</i>   | x | x | 1 | 1 |
| <i>Plagiothecium spec.</i>    | x | x | 1 | . |
| <i>Entodon Schreberi</i>      | x | x | x | . |
| <i>Luzula nemorosa</i>        | x | . | . | x |

Begleiter:

|                            |   |   |   |   |
|----------------------------|---|---|---|---|
| <i>Fagus silvatica</i> Bl  | 3 | 3 | x | 4 |
| " " B2                     | 1 | 1 | 1 | 1 |
| " " S                      | . | . | . | 1 |
| " " K                      | x | . | . | x |
| <i>Luzula pilosa</i>       | 1 | x | x | 1 |
| <i>Rubus idaeus</i>        | x | . | x | x |
| <i>Carex muricata</i> s.l. | x | x | . | x |
| <i>Oxalis acetosella</i>   | 1 | 1 | . | . |
| <i>Abies alba</i> Bl       | x | . | x | . |
| " " K                      | . | . | x | . |

## Außerdem:

Ordnungscharakterarten: *Trientalis europaea* x (3).

Klassencharakterarten: *Veronica officinalis* x (2), *Galium saxatile* x (3), *Sorbus aucuparia* K x (4), *Hieracium vulgatum* x (4).

Begleiter: *Dryopteris Linnaeana* x (4), *Majanthemum bifolium* x (4), *Carex pilulifera* x (3).

Tabelle 3

Querceto-Luzuletum nemorosae oriento-hercynicum  
tyticum

| Nr. | Umgebung von | Aufnahmeort     | Aufnahmestelle   | Hh. m | Ng. o | Fl. Ep. m2 |
|-----|--------------|-----------------|------------------|-------|-------|------------|
| 1.  | Schwarzburg  | 400 m So der    | Oberförsterei    | 300   | 5     | WNW 600    |
| 2.  | "            | 700 m SO der    | Oberförsterei    | 400   | 30    | WNW 1000   |
| 3.  | Vesser       | Vessertal       | 1000 m WNW x 734 | 560   | 20    | S 600      |
| 4.  | Blankenburg  | U.Schwarzatal   | 500 m WSW x 486  | 360   | 25    | NNW 800    |
| 5.  | "            | Hunnenkuppengb. | 800 m WSW x 486  | 350   | 25    | NNW 500    |

| Nr. | Bedeckung % |    |   |    |    | Höchste Vg. sch. Boden-Eigenschaften |          |         |        |          |         |          |          |       |       | HA |
|-----|-------------|----|---|----|----|--------------------------------------|----------|---------|--------|----------|---------|----------|----------|-------|-------|----|
|     | B1          | B2 | S | K  | M  | Hh. m                                | Stuf. cm | Al. Gr. | Tgr. — | Hum. Gr. | Fa. Fa. | Krü. Gr. | Kgr. Gr. | Sk. % | om    |    |
| 1.  | 70          | -  | - | 60 | 15 | 39                                   | 176      | 4/5     | —      | 2        | gb      | 1        | 3        | 50    | 2     |    |
| 2.  | 70          | -  | - | 30 | 5  | 29                                   | 102      | 3/4     | fl     | 1        | glb     | 1        | 3        | 50    | 1     |    |
| 3.  | 75          | -  | - | 20 | 3  | 28                                   | 101      | 3/4     | —      | 2        | gb      | 1        | 3-2/3    | 15    | 1,5   |    |
| 4.  | 70          | -  | - | 70 | 8  | 36                                   | 137      | 4       | fl     | 1/2      | b       | 1/2      | 3        |       | 1     |    |
| 5.  | 60          | 2  | - | 65 | 10 | 41                                   | 136      | 4       | —      | 2        | gb      | 1/2      | 3        |       | wenig |    |

Differentialarten der Assoziationen:

= Differentialarten der Mittelgebirgs-Gruppe

+ " des Querceto-Luzuletum nemorosae  
oriento-hercynicum

Charakterarten:

Luzula nemorosa

Aulacomnium androgynum

1 2 3 . 4 5

4 3 2 3 3

. . . . .

Verbands- und Ordnungscharakterarten:

Dicranella heteromalla

Webera nutans

Veronica officinalis

. x x x x

x x . x x

. . x x x

| Klassencharakterarten:          | 1 | 2 | 3 | 4 | 5 |
|---------------------------------|---|---|---|---|---|
| Polytrichum attenuatum          | 2 | 1 | 1 | 1 | 1 |
| Plagiothecium denticulatum s.l. | x | x | x | x | x |
| Deschampsia flexuosa            | x | 1 | 1 | 2 | x |
| Picea excelsa Bl                | . | . | 1 | . | . |
| " " K                           | x | x | x | x | x |
| Dicranum scoparium              | x | x | . | x | x |
| +Calamagrostis arundinacea      | 2 | x | . | . | x |
| +Rhytidiadelphus loreus         | . | x | . | x | . |
| Hieracium murorum s.s.          | . | x | x | . | . |
| Sorbus aucuparia K              | x | x | . | . | . |
| Hieracium vulgatum              | . | . | x | x | . |

| Begleiter:            | 1 | 1 | 1 | 1 | 2 |
|-----------------------|---|---|---|---|---|
| Oxalis acetosella     | x | x | x | x | x |
| Poa nemoralis         | 4 | 4 | 5 | 4 | 4 |
| Fagus silvatica Bl    | . | . | . | . | x |
| " " B2                | . | . | x | . | . |
| " " S                 | 1 | x | . | x | x |
| " " K                 | . | x | x | . | x |
| =Abies alba Bl        | . | x | . | x | . |
| " " K                 | . | x | x | . | x |
| Catharinaea undulata  | . | x | x | x | x |
| Epilobium montanum    | x | . | . | x | x |
| Rubus idaeus          | x | . | x | x | x |
| Hymnum cupressiforme  | 1 | x | . | x | x |
| Athyrium filix femina | . | . | x | x | x |
| =Dryopteris Linnaeana | . | . | . | x | x |
| Carex muricata s.l.   | . | . | 1 | x | x |
| Dryopteris austriaca  | . | . | . | x | x |
| Thuidium spec.        | . | x | . | x | . |
| Moehringia trinervia  | x | . | x | . | . |
| Carpinus betulus K    | . | . | . | x | x |
| Acer pseudoplatanus K | . | . | x | . | x |
| Cicerbita muralis     | x | . | x | . | . |

Außerdem:

Verbands- und Ordnungscharakterarten: Buxbaumia aphylla x (2).

Klassencharakterarten: Betula pendula K x (4), Polytrichum juniperinum x (3), Vaccinium myrtillus x (1).

Begleiter: Senecio Fuchsii x (3), Digitalis purpurea x (1), Mnium spec. x (5), Anthoxanthum odoratum x (3), Agrostis vulgaris x (3).

Tabelle 4

Fagetum alto-hercynicum  
polytrichetosum

Aufnahme 1 - 7 : Variante von Festuca  
silvatica

" 8 - 10 : Typische Variante

| Nr. | Umgebung von | Aufnahmeort       | Aufnahmestelle   | Hh. m | Ng. o | Ep. | Fl. m <sup>2</sup> |
|-----|--------------|-------------------|------------------|-------|-------|-----|--------------------|
| 1.  | Vesser       | Vessertal         | 1100m OSO x 725  | 610   | 25    | NO  | 1000               |
| 2.  | Vesser       | Vessertal         | 800m ONO x 693   | 640   | 20    | NO  | 800                |
| 3.  | Vesser       | Vessertal         | 1000 m ONO x 693 | 570   | 25    | SO  | 600                |
| 4.  | Vesser       | Vessertal         | 1100 m O x 693   | 550   | 25    | SSW | 800                |
| 5.  | Schmiedefeld | Nahetal           | 800 m NO x 726   | 640   | 20    | W   | 800                |
| 6.  | Schmiedefeld | Nahetal           | 700 m N x 500    | 570   | 25    | WSW | 800                |
| 7.  | Schmiedefeld | Nahetal           | 800 m OSO x 726  | 650   | 20    | NNW | 1000               |
| 8.  | Schmiedefeld | Hückel            | 300 m W x 746    | 700   | -     | -   | 800                |
| 9.  | Schmiedefeld | An der HohenBuche | 900 m OSO x 749  | 540   | 20    | NO  | 600                |
| 10. | Schmiedefeld | An der HohenBuche | 600 m NO x 749   | 570   | 20    | NNO | 600                |

| Nr. | Bedeckung % |    |    |    |    | Höchstevgäh. |          |         | Boden-Eigenschaften |          |            |          |         |    |      | HA cm |
|-----|-------------|----|----|----|----|--------------|----------|---------|---------------------|----------|------------|----------|---------|----|------|-------|
|     | B1          | B2 | S  | K  | M  | Hh. m        | Stuf. cm | Al. GR. | Tgr. fl             | Hum. Gr. | Krü. Fa.   | Kgr. Gr. | Sk. Gr. | HA | cm   |       |
| 1.  | 75          | 5  | -  | 10 | -1 | 29           | 121      | 4       | fl                  |          |            |          |         | 50 |      |       |
| 2.  | 80          | -  | -1 | 15 | 1  | 30           | 86       | 3/4     |                     | 2        | gb         | 1        | 3       | 20 |      | 1,5   |
| 3.  | 75          | -  | -2 | 20 | 2  | 34           | 117      | 3/4     |                     | 2        | gb         | 1/2      | 3       | 40 |      | 1,5   |
| 4.  | 80          | -  | -  | 15 | 1  | 35           | 114      | 3/4     |                     | 2        | gb         | 1        | 3       | 25 |      | 1,5   |
| 5.  | 80          | -  | -  | 15 | 1  | 36           | 139      | 4       |                     | 2        | gb         | 1/2      | 3       | 15 |      | 2     |
| 6.  | 80          | -  | -1 | 15 | 1  | 34           | 146      | 4       |                     |          | Blockhaide |          |         | 80 |      |       |
| 7.  | 80          | -  | -1 | 6  | -1 | 41           | 117      | 3/4     |                     | 2        | db         | 0/1      | 3       | 25 |      | 1,5   |
| 8.  | 75          | 4  | -  | 7  | -1 | 28           | 133      | 4       | fl                  | 2/3      | gb         | 2        | 3       | 30 |      | 0,5   |
| 9.  | 65          | -  | 10 | 40 | -1 | 37           | 154      | 4/5     |                     | 2        | gb         | 1        | 3       | 40 | fast | 0     |
| 10. | 85          | -  | -1 | 40 | -1 | 34           | 117      | 4       |                     | 2/3      | gb         | 1        | 2/3     | 35 |      | 1,5   |

Differentialarten der Assoziationen:

+ Differentialarten der Mittelgebirgs-Gruppe

r Regionale Charakterarten

Charakterarten:

|                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9    | 10 |
|----------------------|---|---|---|---|---|---|---|---|------|----|
| Fagus silvatica B1   | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4    | 5  |
| " " B2               | . | . | . | . | . | . | 1 | 1 | .    | .  |
| " " S                | . | x | 1 | . | . | x | . | . | 2    | x  |
| " " K                | . | x | . | x | x | x | x | . | x    | .  |
| +rFestuca silvatica  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | x | .    | .  |
| +Cardamine bulbifera | 1 | 1 | x | . | . | 1 | x | . | 1(x) | .  |

|                  | 1 | 2 | 3 | 4 | 5 | 6   | 7 | 8 | 9 | 10 |
|------------------|---|---|---|---|---|-----|---|---|---|----|
| Abies alba Bl    | . | . | . | . | . | (x) | . | x | . | .  |
| " " K            | . | . | . | x | . | .   | x | . | . | .  |
| Elymus europaeus | . | . | . | . | . | .   | . | . | . | 1  |

Differentialarten:

Polytrichum attenuatum  
Veronica officinalis  
Digitalis purpurea

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| x | 1 | 1 | 1 | 1 | 1 | x | x | x | x |
| x | x | . | x | . | x | . | x | x | x |
| . | . | . | . | x | . | x | . | x | x |

Luzula nemorosa  
Plagiothecium denticulatum sl  
Poa Chaixii  
Deschampsia flexuosa

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| . | x | x | x | x | x | . | . | . | . |
| . | x | . | . | . | x | . | . | . | . |
| . | x | x | . | x | . | . | . | . | . |
| . | . | . | x | . | x | . | . | . | . |

s.o. Festuca silvatica  
Dicranum scoparium

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | x | . | . |
| x | 1 | . | x | . | x | x | . | . | . |

Verbandscharakterarten:

Catharinaea undulata  
Asperula odorata  
Dryopteris filix mas  
Cicerbita muralis  
Melica uniflora  
Acer pseudoplatanus Bl  
" " K  
Mercurialis perennis

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| x | x | x | x | x | x | x | x | x | x |
| x | x | x | x | x | x | x | . | 1 | 1 |
| x | x | x | x | x | x | . | . | . | x |
| x | x | x | x | x | x | . | . | x | x |
| x | 1 | 2 | 1 | x | x | . | . | 3 | . |
| . | . | . | x | . | . | . | . | x | . |
| x | . | x | x | . | x | . | . | x | x |
| 1 | . | x | x | . | x | . | . | x | 1 |

Ordnungscharakterarten:

Lamium galeobdolon  
Viola silvatica  
Miliun effusum  
Scrophularia nodosa  
Moehringia trinervia  
Epilobium montanum  
Carex silvatica  
+ Stachys silvaticus  
Lysimachia nemorum  
Geranium Robertianum  
+ Cardamine impatiens  
Fraxinus excelsior

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | x | 1 | x | x | x | 1 | 2 |
| x | x | x | x | x | x | . | . | x | x |
| x | x | x | x | 1 | . | x | . | 1 | 2 |
| x | x | x | x | x | x | x | . | x | x |
| x | x | x | x | x | x | . | . | 1 | x |
| . | x | x | x | x | x | . | . | x | x |
| x | . | x | . | x | . | x | . | . | . |
| . | . | . | . | x | . | x | . | x | x |
| . | . | . | . | x | . | x | . | x | . |
| . | . | . | . | . | . | . | . | . | . |

Klassencharakterarten:

Poa nemoralis  
Viola Riviniana  
Hieracium silvaticum

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| x | x | x | x | x | 1 | . | . | x | 1 |
| . | x | . | x | . | . | x | . | x | . |
| . | x | . | x | . | x | . | . | . | . |

Begleiter:

Rubus idaeus  
Picea excelsa Bl  
" " S  
" " K  
Ajuga reptans  
+ Dryopteris Linnaeana

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| x | x | x | x | 1 | x | x | x | x | x |
| x | . | . | x | x | . | . | . | x | x |
| . | . | . | . | . | . | x | . | . | . |
| x | x | x | x | x | x | x | x | x | x |
| x | x | x | x | 1 | . | x | . | 1 | x |
| 1 | x | x | x | x | x | 1 | . | x | 2 |

|                             | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | . | <u>8</u> | <u>9</u> | <u>10</u> |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|---|----------|----------|-----------|
| Carex muricata s.l.         | x        | x        | .        | x        | x        | x        | x        | . | x        | x        | x         |
| Galeopsis tetrahit + bifida | x        | x        | x        | x        | x        | x        | .        | . | x        | x        | x         |
| Sambucus racemosa S         | .        | .        | .        | .        | .        | x        | .        | . | .        | .        | .         |
| " " K                       | x        | .        | x        | x        | x        | .        | x        | . | .        | x        | x         |
| Luzula pilosa               | x        | x        | 1        | .        | x        | x        | x        | . | 1        | x        | .         |
| Dryopteris austriaca        | x        | x        | x        | x        | x        | x        | x        | . | x        | .        | x         |
| Senecio Fuchsii             | x        | .        | x        | x        | x        | x        | x        | . | x        | .        | x         |
| Oxalis acetosella           | 1        | 1        | .        | 1        | 1        | 1        | x        | . | 2        | .        | .         |
| + Athyrium filix femina     | x        | .        | .        | x        | x        | x        | x        | . | x        | x        | x         |
| Sorbus aucuparia K          | .        | .        | .        | .        | x        | x        | x        | . | x        | x        | x         |
| Urtica dioica               | .        | .        | .        | x        | .        | x        | x        | . | .        | 1        | x         |
| Hieracium vulgatum          | x        | x        | x        | .        | .        | .        | .        | . | .        | x        | .         |
| Agrostis vulgaris           | .        | x        | .        | .        | x        | x        | .        | . | .        | .        | .         |
| + Dryopteris phegopteris    | .        | .        | .        | x        | x        | .        | .        | . | .        | .        | .         |
| Fragaria vesca              | .        | .        | .        | .        | x        | .        | .        | . | .        | .        | x         |

Außerdem:

Verbandscharakterarten: Ulmus scabra Bl x (3), Daphne mezereum K x (1).

Ordnungscharakterarten: Acer platanoides S x (9), Impatiens noli tangere x (10), Myosotis silvatica x (10), Ribes grossularia S x (10).

Begleiter: Lycopodium annotinum x (7), Dicranella heteromalla x (2), Hypnum cupressiforme x (1), Polygonatum verticillatum x (3), Rubus spec. x (4), Vicia sepium x (10), Galeopsis tetrahit x (6), Monotropa hypopitys x (2).

Tabelle 5

Fagetum alto-hercynicum  
lysimachietosum

Aufnahme 1 - 4: Typische Variante

" 5 - 10: Variante von *Elymus europaeus*

" 11 - 12: Variante von *Chrysosplenium*

| Nr. | Umgebung von | Aufnahmeort   | Aufnahmestelle   | Hh. | Ng. | Ep. | Fl.            |
|-----|--------------|---------------|------------------|-----|-----|-----|----------------|
|     |              |               |                  | m   | o   |     | m <sup>2</sup> |
| 1.  | Schwarzburg  | 700 m OSO der | Oberförsterei    | 460 | 20  | NNW | 1000           |
| 2.  | "            |               | 900 m WNW x 608  | 460 | 20  | NNW | 700            |
| 3.  | Schmiedefeld | Hohe Buche    | 700 m NW x 749   | 640 | 25  | NNW | 1000           |
| 4.  | "            | Hüchel        | 300 m WSW x 746  | 710 | 2   | SO  | 800            |
| 5.  | Vesser       | Vessertal     | 1200 m OSO x 725 | 610 | 20  | NO  | 1000           |
| 6.  | "            | Vessertal     | 900 m ONO x 693  | 570 | 25  | SO  | 800            |
| 7.  | Schmiedefeld | Nahetal       | 600 m NNO x 749  | 730 | 20  | ONO | 1000           |
| 8.  | "            | Nahetal       | 700 m NO x 726   | 610 | 5   | WSW | 800            |
| 9.  | Frauenwald   | W des Ortes   | 400 m NW x 718   | 670 | 20  | OSO | 1000           |
| 10. | Schmiedefeld | Nahetal       | 900 m SO x 726   | 590 | -   | -   | 500            |
| 11. | Vesser       | Vessertal     | 1100 m O x 725   | 590 | -   | -   | 300            |
| 12. | Vesser       | Vessertal     | 1000 m ONO x 693 | 570 | -   | -   | 500            |

Bestände 11 und 12 auf Terrassen neben Bächen

| Nr. | Bedeckung % |    |    |    |    | Höchste Vgsch. |       |     | Boden-Eigenschaften |       |      |     |     |       |
|-----|-------------|----|----|----|----|----------------|-------|-----|---------------------|-------|------|-----|-----|-------|
|     | B1          | B2 | S  | K  | M  | Hh.            | Stuf. | Al. | Hum.                | Krit. | Kgr. | Sk. | HA. |       |
|     |             |    |    |    |    | m              | om    | Gr. | Gr.                 | Fa.   | Gr.  | Gr. | %   | om    |
| 1.  | 80          | -  | 3  | 40 | -1 | 41             | 164   | 4/5 | 1/2                 | gb    | 2/3  | 3   | 20  |       |
| 2.  | 80          | -1 | -  | 10 | 1  | 29             | 116   | 3/4 | 2/3                 | gb    | 2    | 3   | 25  |       |
| 3.  | 75          | 10 | -  | 4  | -1 | 34             | 120   | 4   | 2                   | gb    | 1    | 3   | 35  | -     |
| 4.  | 75          | 2  | -  | 15 | -1 | 31             | 137   | 4   | 2                   | gb    | 1    | 3   | 2   | 3     |
| 5.  | 80          | 2  | -  | 15 | -1 | 33             | 80    | 3/4 | 3                   | sb    | 2    | 3   | 25  | -     |
| 6.  | 80          | -  | -  | 30 | -1 | 37             | 146   | 4   | 3                   | sb    | 2/3  | 3   |     | -     |
| 7.  | 75          | 10 | -  | 15 | -1 | 34             | 106   | 5/4 | 2                   | gb    | 1    | 3   | 2   | -     |
| 8.  | 50          | 25 | -1 | 80 | -1 | 37             | 113   | 3/4 | 2/3                 | gb    | 1    | 3   | 2   | wenig |
| 9.  | 75          | -  | -  | 40 | -1 | 36             | 112   | 3/4 | 2                   | gb    | 1    | 3   | 2   | -     |
| 10. | 75          | 1  | 3  | 35 | -  | 36             | 136   | 4   | 3                   | sb    | 1/2  | 3   | 3   | 3     |
| 11. | 55          | 20 | 3  | 85 | 4  | 38             | 132   | 4   | 4                   | bs    | 1    | 3   |     | 10    |
| 12. | 65          | 5  | 2  | 85 | 10 | 38             | 145   | 4   | 4                   | bs    | 1    | 3   | 15  | 3     |

Differentialarten der Assoziationen:

+ Differentialarten der Mittelgebirgs-Gruppe

r Regionale Charakterarten

Charakterarten:

|                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------------------|---|---|---|---|---|---|---|---|---|----|----|----|
| Fagus silvatica B1   | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 2 | 5 | 4  | .  | .  |
| " " B2               | . | . | 2 | 1 | 1 | . | 2 | 3 | . | x  | x  | 1  |
| " " S                | 1 | . | . | . | . | . | . | . | . | 1  | x  | x  |
| " " K                | x | x | . | . | . | . | x | . | x | .  | .  | .  |
| Abies alba B1        | . | . | . | x | . | . | . | x | . | x  | 3  | 3  |
| " " B2               | . | x | . | . | . | . | . | . | . | .  | .  | .  |
| " " K                | x | . | . | . | . | . | . | . | . | x  | .  | x  |
| Elymus europaeus     | . | . | . | . | x | 1 | x | 2 | 3 | 1  | .  | .  |
| +Cardamine bulbifera | . | . | x | . | 1 | x | 1 | x | 1 | .  | .  | .  |
| +rFestuca silvatica  | . | . | . | x | x | . | . | . | . | .  | .  | .  |
| Neottia nidus avis   | . | . | . | . | . | . | . | . | x | .  | .  | .  |

Differentialarten:

|                          |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Veronica montana         | x | . | x | x | x | x | x | x | x | x | x | x |
| Lysimachia nemorum       | . | . | 1 | 1 | x | 1 | 1 | x | 1 | 1 | x | 1 |
| Carex remota             | 1 | x | x | x | x | . | x | x | x | x | . | x |
| Cardamine flexuosa       | 1 | x | 1 | x | . | . | x | x | . | . | x | x |
| Festuca gigantea         | x | x | . | . | x | . | . | . | x | x | . | . |
| Circaea intermedia       | x | x | . | . | . | . | . | . | . | . | x | x |
| + Impatiens noli tangere | . | . | . | . | . | x | . | . | x | . | x | x |

s.o. Elymus europaeus  
Myosotis silvatica  
Actaea spicata

|   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|
| . | . | . | . | x | 1 | x | 2 | 3 | 1 | . | . |
| . | . | . | . | x | x | 1 | x | x | x | . | . |
| . | . | . | . | x | x | x | x | . | . | . | . |

Chrysosplenium alternifolium.  
Crepis paludosa  
Ranunculus repens  
Mnium undulatum  
Poa trivialis  
Agrostis alba

|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . | . | . | . | . | x | x |
| . | . | . | . | . | . | . | . | . | . | . | x | x |
| . | . | . | . | . | . | . | . | . | . | . | x | x |
| . | . | . | . | . | . | . | . | . | . | . | x | x |
| . | . | . | . | . | . | . | . | . | . | . | x | x |
| . | . | . | . | . | . | . | . | . | . | . | x | x |

Verbandscharakterarten:

|                        |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Cicerbita muralis      | x | . | x | x | x | x | x | x | x | x | . | x |
| Asperula odorata       | . | . | x | x | 1 | 1 | x | 2 | 1 | 1 | x | 1 |
| Catharinaea undulata   | x | x | 1 | x | x | . | x | x | x | x | 1 | 1 |
| Melica uniflora        | 1 | x | . | . | x | 1 | 1 | 3 | 2 | x | x | . |
| Dryopteris filix mas   | . | x | . | x | x | x | x | x | x | x | . | . |
| Mercurialis perennis   | . | x | . | . | 1 | x | x | 1 | . | . | . | . |
| Acer pseudoplatanus B1 | . | . | . | . | x | . | . | . | . | . | . | . |
| " " S.                 | . | . | . | . | . | . | . | . | . | x | x | . |
| " " K                  | . | . | . | . | x | x | . | . | . | x | . | . |
| Eurhynchium striatum   | . | . | . | . | . | . | . | . | . | . | x | x |

Ordnungscharakterarten:

|                      |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Viola silvatica      | 1 | x | x | x | 1 | x | x | x | x | 1 | x | x |
| Milium effusum       | . | . | x | x | x | 1 | 1 | 3 | 1 | 2 | x | 1 |
| Carex silvatica      | . | . | x | 1 | 1 | x | x | x | 1 | x | x | x |
| Moehringia trinervia | x | x | x | . | x | . | x | . | x | x | x | x |
| Lamium galeobdolon   | . | . | x | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 |
| + Stachys silvaticus | . | . | x | x | x | x | x | 1 | x | x | x | x |
| Geranium Robertianum | 1 | x | . | . | x | x | x | x | x | x | . | x |
| Epilobium montanum   | x | x | . | . | x | x | x | x | . | x | . | x |

|                                             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---------------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|
| <i>Scrophularia nodosa</i>                  | x | . | x | . | x | x | x | x | x | .  | .  | .  |
| <i>Anemone nemorosa</i>                     | . | . | . | . | x | . | 1 | . | x | 1  | 2  | 1  |
| <i>Brachypodium silvaticum</i>              | x | x | . | . | . | x | . | x | . | .  | .  | x  |
| <i>Pulmonaria obscura</i>                   | . | . | . | . | . | x | x | 1 | x | 1  | .  | x  |
| + <i>Cardamine impatiens</i>                | x | . | . | . | x | x | . | x | . | .  | .  | .  |
| <i>Carex brizoides</i>                      | . | . | . | . | . | x | . | . | x | .  | .  | x  |
| <i>Geum urbanum</i>                         | x | . | . | . | . | . | . | . | . | x  | x  | .  |
| <i>Phyteuma spicatum</i>                    | . | . | . | . | . | . | . | . | . | x  | x  | x  |
| <i>Polygonatum multiflorum</i>              | . | . | . | . | . | . | x | . | . | .  | x  | .  |
| <i>Aegopodium podagraria</i>                | . | . | . | . | . | . | . | . | . | x  | x  | .  |
| <u>Klassencharakterarten:</u>               |   |   |   |   |   |   |   |   |   |    |    |    |
| <i>Foa nemoralis</i>                        | 1 | . | 1 | x | x | . | . | x | x | x  | .  | .  |
| <i>Viola Riviniana</i>                      | x | . | x | . | x | x | x | x | x | x  | .  | .  |
| <u>Begleiter:</u>                           |   |   |   |   |   |   |   |   |   |    |    |    |
| <i>Dryopteris austriaca</i>                 | x | x | x | x | x | x | x | x | x | x  | x  | x  |
| <i>Oxalis acetosella</i>                    | 2 | 2 | x | 2 | 1 | x | . | 2 | 1 | 1  | 4  | 4  |
| + <i>Athyrium filix femina</i>              | x | x | x | x | x | x | x | x | . | x  | 1  | x  |
| <i>Picea excelsa</i> B1                     | . | . | . | 2 | . | x | x | 3 | . | 2  | 2  | 3  |
| " " B2                                      | . | . | . | . | . | . | . | . | . | .  | 2  | x  |
| " " S                                       | . | . | . | . | . | . | . | . | . | .  | 1  | x  |
| " " K                                       | . | x | x | x | . | x | x | x | x | x  | x  | .  |
| <i>Ajuga reptans</i>                        | . | x | x | 1 | x | x | x | x | x | x  | x  | .  |
| <i>Rubus idaeus</i>                         | . | x | x | x | . | x | x | . | x | x  | 1  | 2  |
| + <i>Dryopteris Linnaeana</i>               | 1 | 1 | x | x | x | 1 | . | . | x | x  | x  | .  |
| <i>Senecio Fuchsii</i>                      | . | . | x | . | x | 1 | x | x | x | x  | x  | x  |
| <i>Urtica dioica</i>                        | x | x | . | . | x | x | x | x | x | x  | .  | .  |
| <i>Polytrichum attenuatum</i>               | x | 1 | x | x | x | x | . | . | . | .  | x  | x  |
| <i>Sambucus racemosa</i> S                  | . | . | . | . | . | . | . | x | . | x  | .  | .  |
| " " K                                       | . | . | . | . | x | . | x | x | x | x  | x  | x  |
| <i>Fragaria vesca</i>                       | x | . | . | . | . | x | . | x | x | x  | 1  | x  |
| <i>Galeopsis tetrahit</i> + <i>bifida</i>   | . | . | x | . | . | x | x | x | . | x  | .  | 1  |
| <i>Sorbus aucuparia</i> S                   | . | . | . | . | . | . | . | . | . | x  | .  | .  |
| " " K                                       | x | x | x | x | . | . | . | x | . | .  | .  | .  |
| <i>Veronica officinalis</i>                 | x | x | x | . | . | . | x | . | . | .  | .  | x  |
| <i>Stellaria nemorum</i>                    | . | . | . | . | . | . | x | 1 | . | x  | 2  | 1  |
| <i>Luzula pilosa</i>                        | . | . | x | 1 | . | . | . | . | . | x  | x  | x  |
| <i>Digitalis purpurea</i>                   | . | x | 1 | . | . | . | x | . | x | .  | .  | .  |
| <i>Carex muricata</i> s.l.                  | . | x | . | x | . | x | . | . | 1 | x  | .  | .  |
| <i>Galeopsis spec.</i>                      | . | . | . | x | x | . | . | . | . | .  | x  | .  |
| <i>Deschampsia caespitosa</i>               | . | . | . | x | . | . | . | . | . | x  | x  | .  |
| <i>Melandryum dioicum</i>                   | . | . | . | . | . | x | . | . | . | x  | .  | .  |
| <i>Veronica chamaedrys</i>                  | . | . | . | . | . | . | x | . | . | x  | .  | .  |
| <i>Poa Chaixii</i>                          | . | . | . | . | . | . | . | . | . | .  | x  | x  |
| <i>Mnium spec.</i>                          | . | . | . | . | . | . | . | . | . | .  | x  | 1  |
| <i>Lansana communis</i>                     | . | . | . | . | . | . | x | . | . | x  | .  | .  |
| <i>Rubus spec.</i>                          | . | . | . | . | . | . | . | . | x | .  | x  | .  |
| <i>Eurhynchium spec.</i>                    | . | . | . | . | . | . | . | . | . | .  | x  | 1  |
| <i>Monotropa hypopitys</i> + <i>hirsuta</i> | . | x | . | . | . | . | x | . | . | .  | .  | .  |

Außerdem:

Verbandscharakterarten: *Ulmus scabra* K x (6), *Dryopteris lobata* x (9), *Daphne mezereum* K x (7), *Sanicula europaea* x (7).

Ordnungscharakterarten: *Arum maculatum* x (5), *Bromus asper* ssp. *Benekini* x (6), *Circaea alpina* x (1), *Lamium maculatum* x (10).

Klassencharakterarten: *Crataegus oxyacantha* S x (11), *Lonicera xylosteum* S 1 (12),

Begleiter: *Luzula nemorosa* x (1), *Lonicera nigra* S 1 (11), *Rhytidadelphus loreus* x (11), *Dicranum scoparium* x (12), *Galium saxatile* x (3), *Mnium punctatum* x (2), *Chaerophyllum hirsutum + oicutaria* x (11), *Plagiochila asplenoides* 1 (11), *Equisetum silvaticum* x (12), *Anthoxanthum odoratum* x (3), *Dryopteris ptegopteris* x (8), *Carex pallescens* x (10).

Tabelle 6

Fagetum oriento-hercynicum-

Aufnahme 1 - 2: polytrichetosum

" 3 - 4: typicum

| Nr. | Umgebung von | Aufnahmeort      | Aufnahmestelle   | Hh. m | Ng. o | Ep. | Fl. m <sup>2</sup> |
|-----|--------------|------------------|------------------|-------|-------|-----|--------------------|
| 1.  | Blankenburg  | Unt. Schwarzatal | 800 m WSW x 486  | 350   | 30    | NNO | 800                |
| 2.  | "            | Hännenkuppengl.  | 1000 m WSW x 486 | 290   | 30    | N   | 800                |
| 3.  | Blankenburg  | Unt. Schwarzatal | 1000 m W x 486   | 240   | 25    | NNO | 500                |
| 4.  | "            | Hainberg         | 500 m WSW x 583  | 400   | 25    | N   | 800                |

| Bedeckung % |              | Höchste Vg. sch. |           | Boden-Eigenschaften |        | Sk. HA |    |
|-------------|--------------|------------------|-----------|---------------------|--------|--------|----|
| Nr.         | B1 B2 S K M  | Hh. Stuf. Al.    | Tgr. Hum. | Krü. Kgr.           | Sk. HA | %      | cm |
| 1.          | 70 - -1 70 3 | 35 145           | 4         | zf 3                | sb     | 2/3 3  | 50 |
| 2.          | 75 3 - 25 1  | 35 99            | 3/4       | fl 1/2              | gb     | 2/3 3  | 25 |
| 3.          | 80 - - 33 -1 | 37 121           | 4         | 2                   | gb     | 2 3    | 70 |
| 4.          | 80 - 2 30 -  | 34 122           | 4         | 1/2                 | db     | 2/3 3  | 50 |

Nr. 3 und 4 auf Schutthalde

Differentialarten der Assoziationen:

+ Differentialarten der Mittelgebirgsgruppe

! " der Gruppe der niedrigeren Gebiete der Mittelgebirge

= " des Fagetum oriento-hercynicum

r Regionale Charakterart des Fagetum

| Charakterarten:       |    | 1 | 2 | 3 | 4 |
|-----------------------|----|---|---|---|---|
| Fagus silvatica       | B1 | 4 | 4 | 4 | 4 |
| "                     | B2 | . | 1 | . | . |
| "                     | K  | x | x | . | . |
| Abies alba            | B1 | . | x | . | 2 |
| "                     | B2 | . | . | x | . |
| "                     | S  | . | . | . | 1 |
| "                     | K  | x | x | . | x |
| + Festuca silvatica   |    | 4 | 2 | 1 | x |
| + Cardamine bulbifera |    | . | . | x | . |

| Differentialarten:                   | 1 | 2 | 3 | 4 |
|--------------------------------------|---|---|---|---|
| <i>Polytrichum attenuatum</i>        | 1 | x | . | . |
| <i>Luzula nemorosa</i>               | 1 | 1 | . | . |
| <i>Digitalis purpurea</i>            | x | x | . | . |
| <i>Deschampsia flexuosa</i>          | x | . | . | . |
| <i>Plagiothecium denticuatum</i> sl. | . | x | . | . |
| <i>Veronica officinalis</i>          | . | x | . | . |

Verbandscharakterarten:

|                               |   |   |   |   |
|-------------------------------|---|---|---|---|
| <i>Dryopteris filix mas</i>   | x | x | x | x |
| <i>Carpinus betulus</i> Bl    | . | . | x | x |
| " " B2                        | . | x | . | . |
| " " K                         | x | x | x | . |
| <i>Gatharinaea undulata</i>   | 1 | 1 | x | x |
| <i>Cisnerbita muralis</i>     | . | x | x | x |
| <i>Acer pseudoplatanus</i> Bl | x | . | . | . |
| " " K                         | x | . | x | . |

Ordnungscharakterarten:

|                                 |   |   |   |   |
|---------------------------------|---|---|---|---|
| <i>Epilobium montanum</i>       | . | x | x | x |
| <i>Fraxinus excelsior</i> K     | . | x | x | . |
| <i>Geranium Robertianum</i>     | . | . | 2 | 1 |
| + <i>Impatiens noli tangere</i> | x | . | x | . |
| <i>Lamium galeobdolon</i>       | . | . | x | 2 |
| <i>Scrophularia nodosa</i>      | x | x | . | . |
| <i>Milium effusum</i>           | . | x | 1 | x |

Klassencharakterarten:

|                           |   |   |   |   |
|---------------------------|---|---|---|---|
| <i>Poa nemoralis</i>      | x | x | x | x |
| <i>Tilia cordata</i> Bl   | . | . | 2 | . |
| " " K                     | . | x | x | . |
| <i>Corylus avellana</i> K | . | x | x | . |

Begleiter:

|                                |   |   |   |   |
|--------------------------------|---|---|---|---|
| <i>Dryopteris austriaca</i>    | 1 | x | x | 1 |
| + <i>Athyrium filix femina</i> | x | x | x | x |
| <i>Picea excelsa</i> Bl        | . | x | x | x |
| " " K                          | . | x | . | . |
| <i>Oxalis acetosella</i>       | 1 | 2 | . | 2 |
| <i>Ajuga reptans</i>           | x | x | . | x |
| <i>Rubus idaeus</i>            | x | x | x | . |
| <i>Galopisus</i> spec.         | . | x | . | 1 |
| <i>Sambucus racemosa</i> K     | . | x | x | x |
| <i>Sorbus aucuparia</i> S      | x | . | . | . |
| " " K                          | x | . | . | x |

Außerdem:

Verbandscharakterarten: *Ulmus scabra* K x (3), *Dryopteris lobata* x (4), *Asperula odorata* x (4), *Mercurialis perennis* 2 (3).

Ordnungscharakterarten: *Viola silvatica* x (4), *Moehringia trinervia* x (2), *Alliaria officinalis* x (3), *Festuca gigantea* x (1), *Acer platanoides* K x (2).

Klassencharakterarten: *Viola Riviniana* x (4).

Begleiter: *Urtica dioica* 1 (3), *Luzula pilosa* x (2), *Melandryum dioicum* x (2), *Dryopteris Linnaeana* 1 (1), *Rhytidadelphus loreus* x (2).

Tabelle 7

Cariceto remotae-Fraxinetum alto-hercynicum  
chrysosplenietosum

| Nr. | Umgebung von | Aufnahmeort   | Aufnahmestelle   | Hh.   | Ng. | Fl.     |
|-----|--------------|---------------|------------------|-------|-----|---------|
|     |              |               |                  | ü.M.m | o   | Ep. m2  |
| 1.  | Schwarzburg  | 700 m OSO der | Oberförsterei    | 470   | 10  | WNW 150 |
| 2.  | Vesser       | Vessertal     | 1100 m O x 693   | 580   | 10  | NW 100  |
| 3.  | Schmiedefeld | Nahetal       | 400 m NO x 734   | 590   | 10  | OSO 150 |
| 4.  | "            | Nahetal       | 700 m ONO x 726  | 610   | 15  | W 150   |
| 5.  | "            | Nahetal       | 1000 m OSO x 726 | 660   | 5   | WSW 200 |

| Nr. | Bedeckung % |    |    |    |   | Höchste Vgsch. |     | Boden-Eigenschaften |      |      |     |    |    | HA |
|-----|-------------|----|----|----|---|----------------|-----|---------------------|------|------|-----|----|----|----|
|     | B1          | B2 | S  | K  | M | Hh.Stuf.       | Al. | Ham.                | Krü. | Kgr. | Sk. | %  | om |    |
| 1.  | (60)        | -  | 70 | -1 | - | -              | -   | 3                   | gs   | o/1  | 3   | -  | -  | -  |
| 2.  | (25)        | -  | 90 | 3  | - | -              | -   | 3                   | gs   | o/1  | 3   | -  | -  | -  |
| 3.  | (50)        | -  | 80 | 2  | - | -              | -   | 4                   | gs   | o    | 3   | 20 | ▼  | -  |
| 4.  | (40)        | -  | 65 | 3  | - | -              | -   | 3/4                 | gs   | o    | 3   | 20 | -  | -  |
| 5.  | (60)        | -  | 75 | 1  | - | -              | -   | 3/4                 | gs   | o    | 3   | 30 | -  | -  |

Die Angabe in Klammern, z.B. (60), bei B1 und B2 gibt an, wieviel Prozent des Bodens durch die Kronen umstehender Bäume bedeckt ist.

Differentialarten der Assoziationen:

+ Differentialarten der Mittelgebirgs-Gruppe

| <u>Charakterarten:</u> | 1 | 2 | 3 | 4 | 5 |
|------------------------|---|---|---|---|---|
| Carex remota           | 4 | 1 | x | x | 1 |
| Cardamine flexuosa     | 1 | 1 | x | x | x |
| +Veronica montana      | . | x | x | x | x |
| +Lysimachia nemorum    | . | 1 | 1 | 1 | 1 |
| Rumex sanguineus       | . | . | . | x | x |
| +Circaea intermedia    | x | . | . | . | . |

| <u>Differentialarten:</u>      | 1 | 2 | 3 | 4 | 5 |
|--------------------------------|---|---|---|---|---|
| Chrysosplenium alternifolium   | x | 2 | 2 | 1 | 1 |
| +Chrysosplenium oppositifolium | 1 | 3 | 4 | 3 | 4 |
| Mnium punctatum                | x | x | x | . | x |
| Stellaria nemorum              | . | 2 | x | 2 | 1 |
| Myosotis palustris             | . | . | . | x | . |

Verbandscharakterarten:

Stachys silvaticus x . x x x

| <u>Ordnungscharakterarten:</u> | 1 | 2 | 3 | 4 | 5 |
|--------------------------------|---|---|---|---|---|
| <i>Geranium Robertianum</i>    | x | x | x | x | 1 |
| <i>Epilobium montanum</i>      | 1 | x | x | x | x |
| <i>Milium effusum</i>          | x | x | x | x | x |
| <i>Impatiens noli tangere</i>  | . | x | x | x | x |
| <i>Lamium galeobdolon</i>      | . | 1 | x | x | x |
| <i>Viola silvatica</i>         | x | x | x | . | x |
| <i>Carex silvatica</i>         | . | . | x | x | 1 |
| <i>Catharinaea undulata</i>    | . | x | x | . | . |
| <i>Melica uniflora</i>         | x | . | . | x | . |

| <u>Klassencharakterarten:</u> |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|
| <i>Poa nemoralis</i>          | x | . | . | . | x |
| <i>Viola Riviniana</i>        | . | . | x | . | x |

| <u>Begleiter:</u>                    |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|
| <i>Dryopteris austriaca</i>          | x | x | x | x | x |
| <i>Urtica dioica</i>                 | x | x | x | x | x |
| <i>Oxalis acetosella</i>             | x | 1 | x | 1 | 1 |
| <i>Cardamine amara</i>               | . | 1 | x | 1 | x |
| <i>Ranunculus repens</i>             | . | 1 | x | 1 | x |
| <i>Athyrium filix femina</i>         | . | x | x | x | x |
| <i>Mnium undulatum</i>               | . | 1 | x | x | x |
| <i>Poa trivialis</i>                 | x | . | x | x | x |
| <i>Eurhynchium spec.</i>             | x | 1 | . | 1 | 1 |
| <i>Galeopsis + bifida</i>            | x | . | x | x | x |
| <i>Agrostis alba</i>                 | . | . | x | 1 | x |
| <i>Crepis paludosa</i>               | . | . | x | x | x |
| <i>Equisetum arvense + nemorosum</i> | . | . | . | x | x |
| <i>Ajuga reptans</i>                 | . | . | x | . | x |
| <i>Fragaria vesca</i>                | . | . | x | . | x |
| <i>Filipendula ulmaria</i>           | . | . | x | x | . |
| <i>Rubus idaeus</i>                  | . | . | x | . | x |
| <i>Chaerophyllum hirsutum</i>        | . | . | x | x | . |
| <i>Calliergon spec.</i>              | . | . | x | . | x |
| <i>Veronica beccabunga</i>           | . | x | x | . | . |

#### Verbandsarten:

Verbandscharakterarten: *Circaea latetiana* x (5), *Festuca gigantea* x (1).

Ordnungscharakterarten: *Abies alba* K x (5), *Allium ursinum* x (3), *Asperula odorata* 1 (5), *Cardamine impatiens* x (1), *Circaea alpina* x (1), *Cicerbita muralis* x (3), *Moehringia trinervia* x (3).

Begleiter: *Sambucus racemosa* K x (2), *Juncus effusus* x (5), *Brachythecium spec.* x (1), *Plagiothecium spec.* x (3), *Mnium spec.* x (4), *Thuidium spec.* x (2), *Galium palustre* x (4), *Valeriana sambucifolia* x (3), *Dryopteris Linnaeana* x (2), *Trichocolea tomentella* x (4), *Poa Chaixii* x (5).

Tabelle 8

Cariceto remotae-Fraxinetum oriento-hercynicum  
chrysosplenietosum

| Nr. | Umgebung von | Aufnahmeort       | Aufnahmestelle    | Hh. H.Mm | Ng. 0 | Fl. Ep. m2 |
|-----|--------------|-------------------|-------------------|----------|-------|------------|
| 1.  | Schwarzburg  | 400 m SSo         | der Oberförsterei | 280      | -     | 250        |
| 2.  | Saalfeld     | Gernsdorfer Grund | 1100 mSW x 279    | 330      | -     | 200        |

| Nr. | Bedeckung % |    |   |    |    | Höchste Vgsh. |         | Boden-Eigenschaften |         |          |       |       |
|-----|-------------|----|---|----|----|---------------|---------|---------------------|---------|----------|-------|-------|
|     | B1          | B2 | S | M  | M  | Hh. Stuf.     | Al. Gr. | Hum. Gr.            | Kr. Gr. | Kgr. Gr. | Sk. % | HA cm |
| 1.  | 65          | -  | 2 | 70 | 1  | 31            | 96      | 3/4                 | 3       | gs       | 0/1   | 3     |
| 2.  | 70          | -  | 3 | 70 | 10 | 28            | 115     | 3/4                 | 3       | gs       | 0     | 2/3-3 |

Differentialarten der Assoziationen:

+ Differentialarten der Mittelgebirgs-Gruppe

! " der Gruppe der niedrigeren Gebiete

| Charakterarten:             | Nr: | 1 | 2 |  | 1                           | 2   |
|-----------------------------|-----|---|---|--|-----------------------------|-----|
| <i>Carex remota</i>         |     | x | 1 |  | <i>Lamium galeobdolon</i>   | . 2 |
| + <i>Circaea intermedia</i> |     | x | x |  | <i>Alliaria officinalis</i> | . x |
| + <i>Lysimachia nemorum</i> |     | . | x |  | <i>Fagus sylvatica</i> Bl   | 1 . |
| + <i>Veronica montana</i>   |     | x | . |  |                             |     |

Klassencharakterarten:

|                             |     |
|-----------------------------|-----|
| ! <i>Corylus avellana</i> S | x . |
| <i>Poa nemoralis</i>        | . x |
| <i>Viola Riviniana</i>      | . x |

Begleiter:

|                               |     |
|-------------------------------|-----|
| ! <i>Alnus glutinosa</i> Bl   | 4 4 |
| <i>Cardamine amara</i>        | 2 x |
| <i>Ranunculus repens</i>      | 1 x |
| <i>Ajuga reptans</i>          | x x |
| <i>Deschampsia caespitosa</i> | x 1 |
| <i>Athyrium filix femina</i>  | x x |
| <i>Dryopteris austriaca</i>   | x x |
| <i>Brachythecium spec.</i>    | x x |
| <i>Mnium undulatum</i>        | x 2 |
| <i>Rubus idaeus</i>           | x x |
| <i>Galeopsis spec.</i>        | x x |
| <i>Urtica dioica</i>          | x 1 |
| <i>Poa trivialis</i>          | x x |
| <i>Lapsana communis</i>       | . x |
| <i>Rubus spec.</i>            | . x |
| <i>Phaglophragma spec.</i>    | . x |

Verbandscharakterarten:

|                           |     |
|---------------------------|-----|
| <i>Festuca gigantea</i>   | 1 2 |
| <i>Stachys silvaticus</i> | x 1 |
| <i>Agropyron caninum</i>  | . x |

Ordnungscharakterarten:

|                                  |     |
|----------------------------------|-----|
| ! <i>Brachypodium silvaticum</i> | x 1 |
| <i>Geum urbanum</i>              | 1 x |
| <i>Epilobium montanum</i>        | x x |
| ! <i>Fraxinus excelsior</i> S    | . 1 |
| " " K                            | x . |
| <i>Geranium Robertianum</i>      | x 1 |
| <i>Viola silvatica</i>           | . x |

Außerdem Begleiter: *Chaerophyllum hirsutum* ssp. *ciutaria* x (2), *Eurhynchium spec.* 1 (2), *Sambucus nigra* S x (2), *Scutellaria galericulata* x (1), *Pellia spec.* x (1), *Glechoma hederaceum* 1 (1), *Phalaris arundinacea* 1 (1), *Filipendula ulmaria* x (1), *Fragaria vesca* x (1), *Oxalis acetosella* 1 (2), *Crepis paludosa* x (2), *Equisetum arvense* var. *nemorosum* x (2).



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