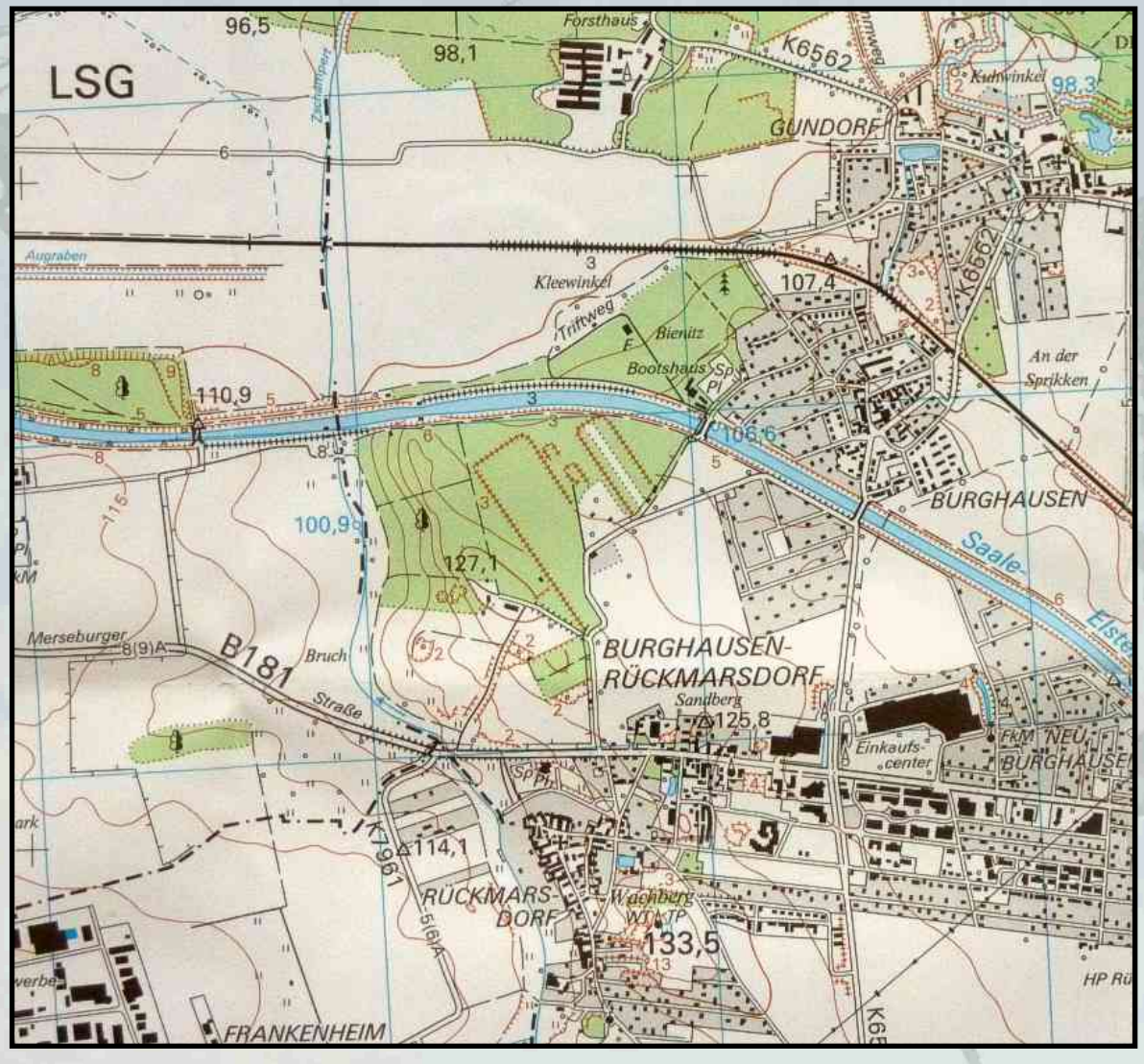
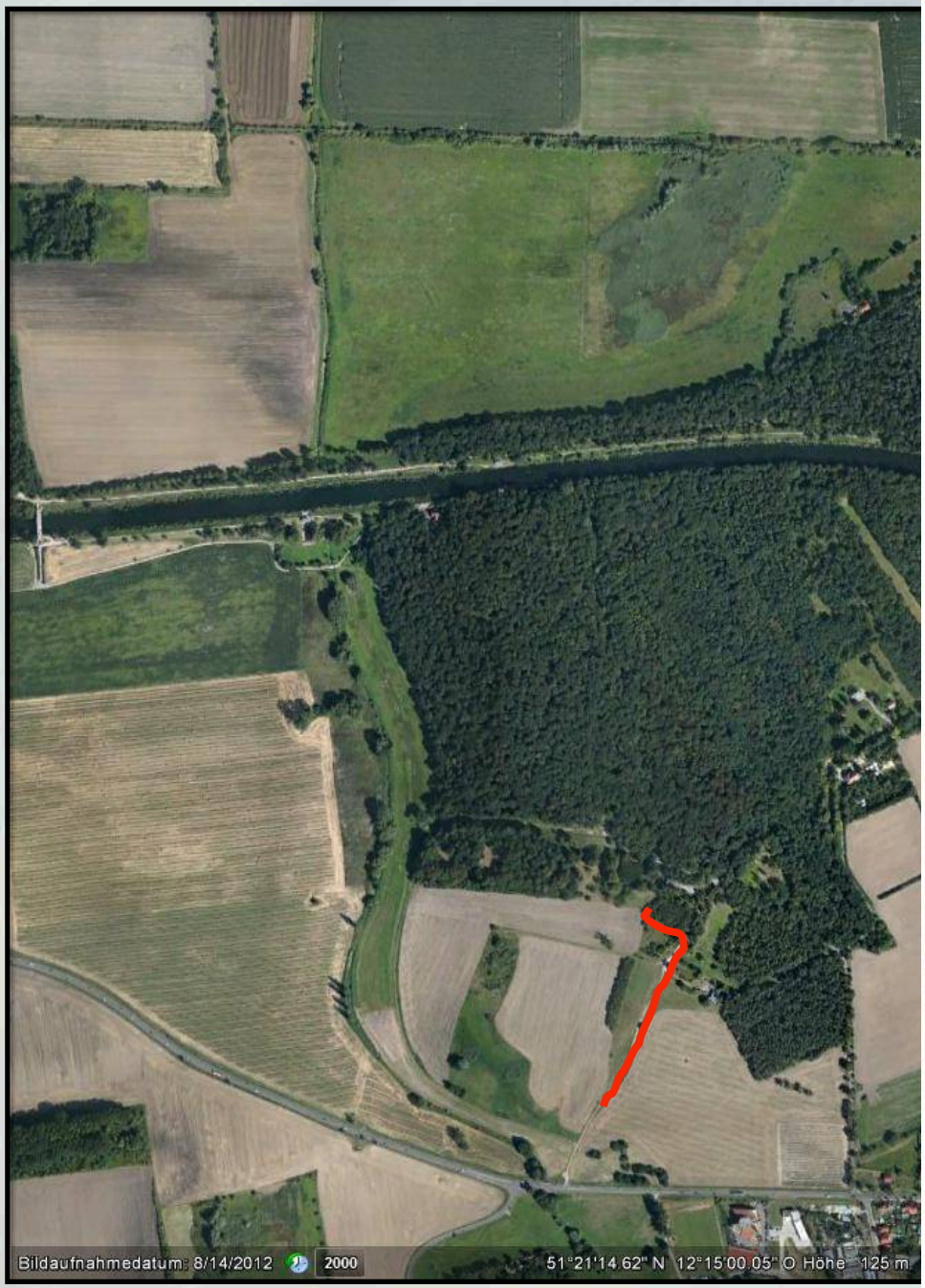
# Bericht vom Tagfaltermonitoring am Bienitz

von

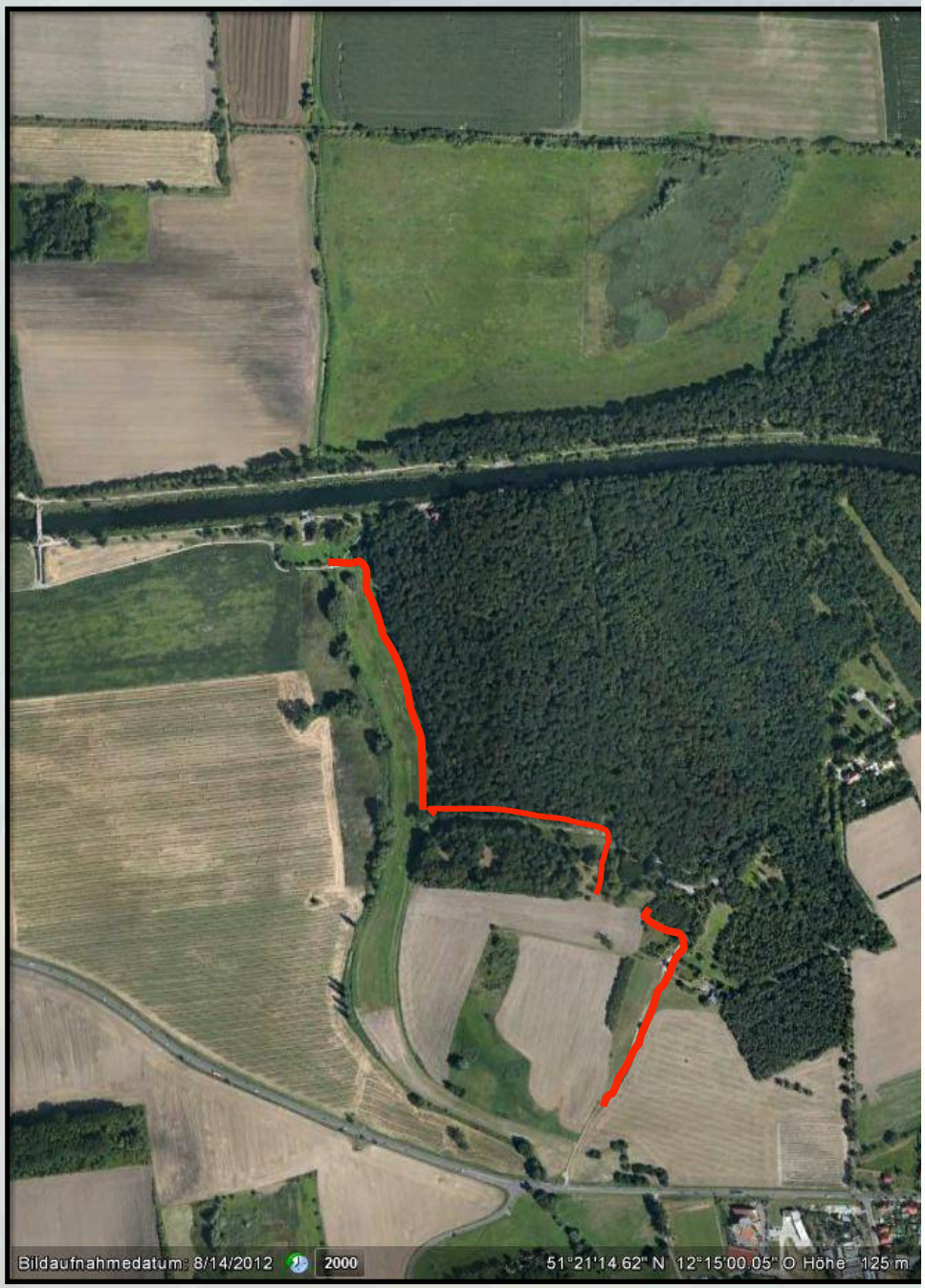
**Dietrich & Helga Wagler**

# Lage des Untersuchungsgebietes „Bienitz“

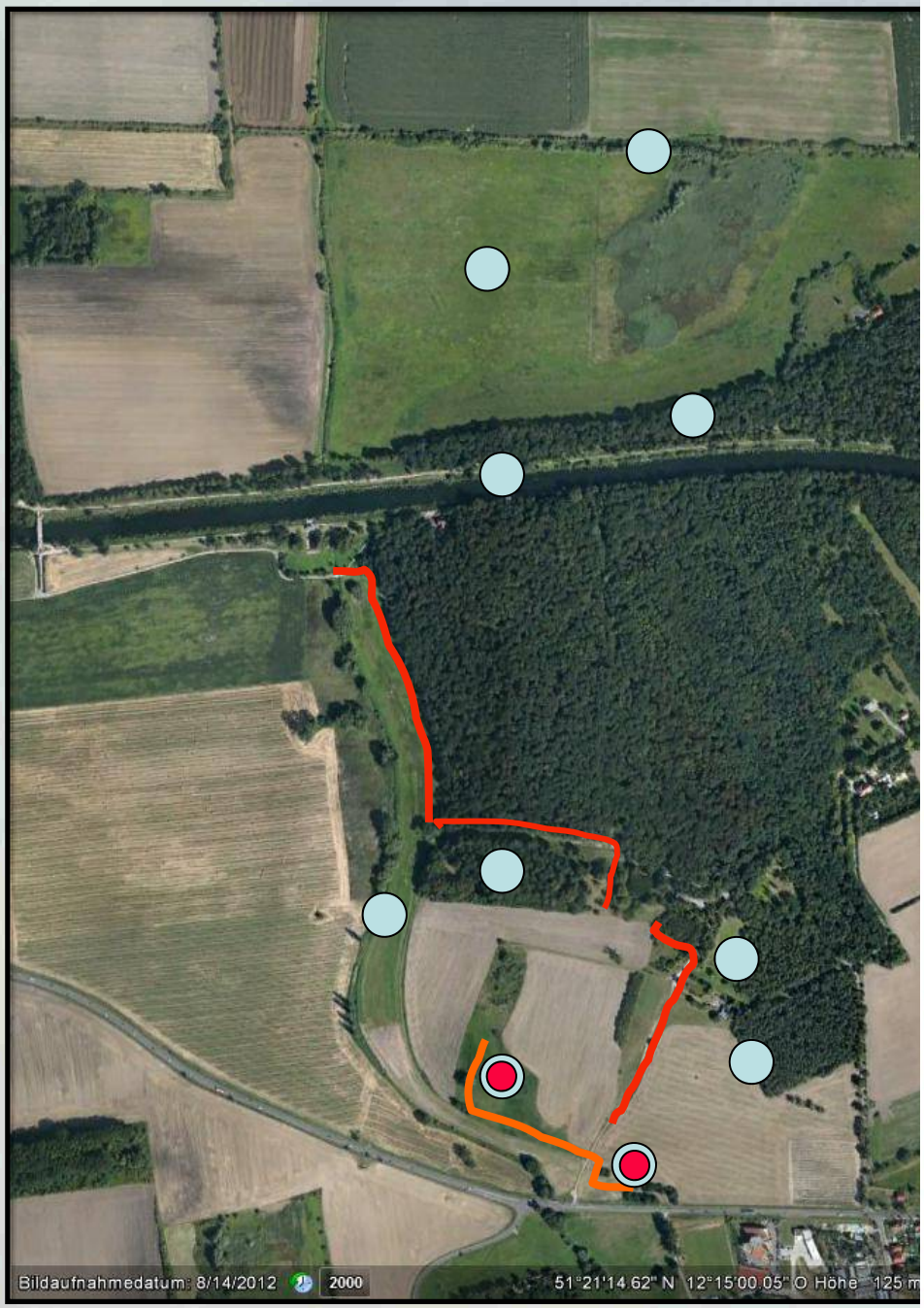



Bildaufnahmedatum: 8/14/2012
2000
51°21'14.62" N 12°15'00.05" O Höhe 125 m

Bildaufnahmedatum: 8/14/2012
2000
51°21'14.62" N 12°15'00.05" O Höhe 125 m



Wagler, Dietrich & Helga, Bericht vom Tagfaltermonitoring am Bienitz



Wagler, Dietrich & Helga, Bericht vom Tagfaltermonitoring am Bienitz

## Anzahl der Transektbegehungen

| | Transekt 1 | Transekt 2 |
|---|---|---|
| 2007: | 29 | |
| 2008: | 32 | |
| 2009: | 29 | |
| 2010: | 30 | |
| 2011: | 32 | 32 |
| 2012: | 28 | 28 |

## Gelistete Arten (in beiden Transekten)

| | |
|---|---|
| 46 | Tagfalter |
| 5 | Widderchen |
| 3 | Schwärmer |
| 18 | Eulenfalter |
| 20 | Spanner |
| 1 | Langhornmotte |
| 6 | Zünsler |

**98 Arten**

## Nichtgelistete Arten (* weitere Art)

| | |
|---|---|
| 63 | Nachtfalter |
| 34 | Mikros |

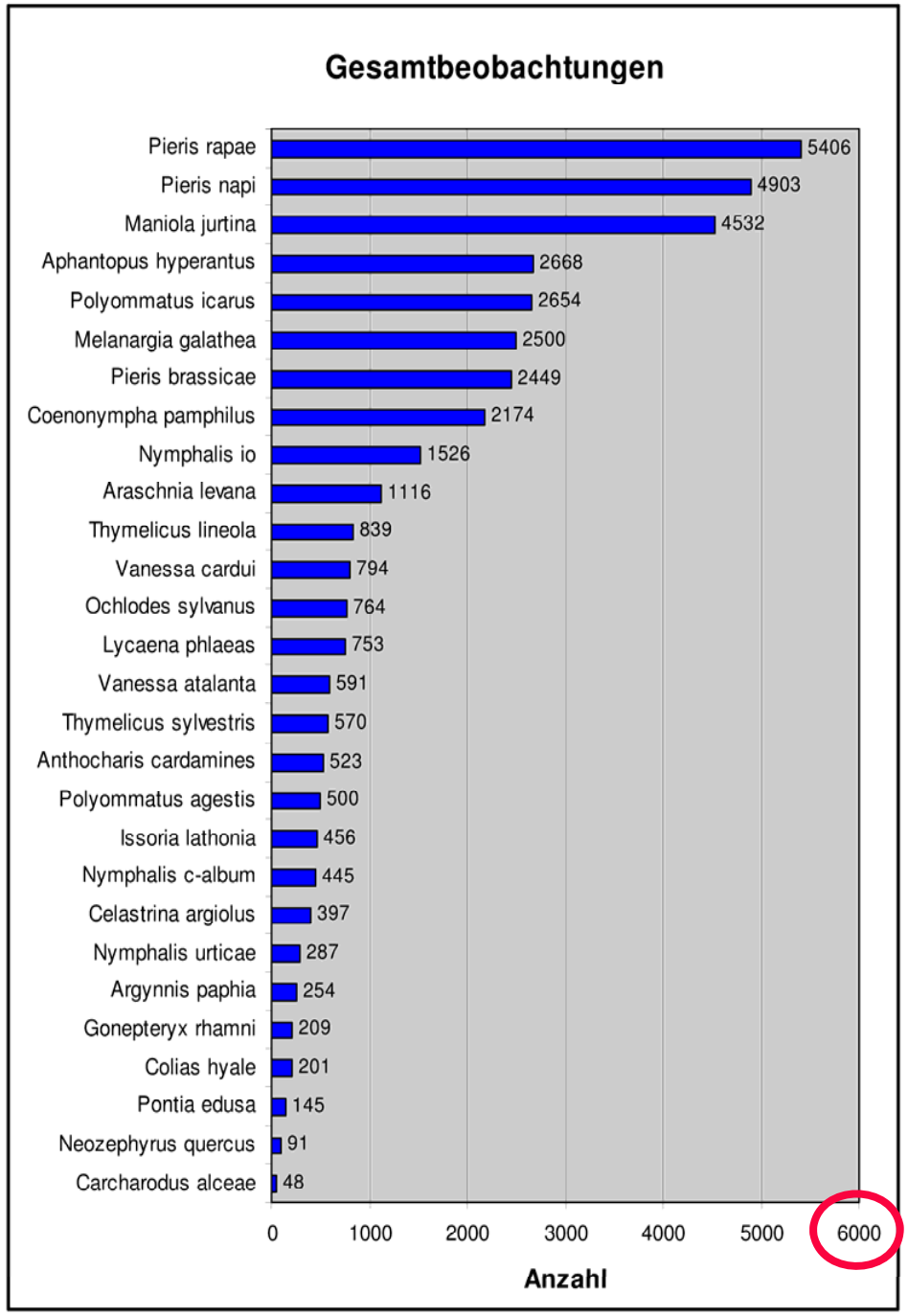
**97 Arten**

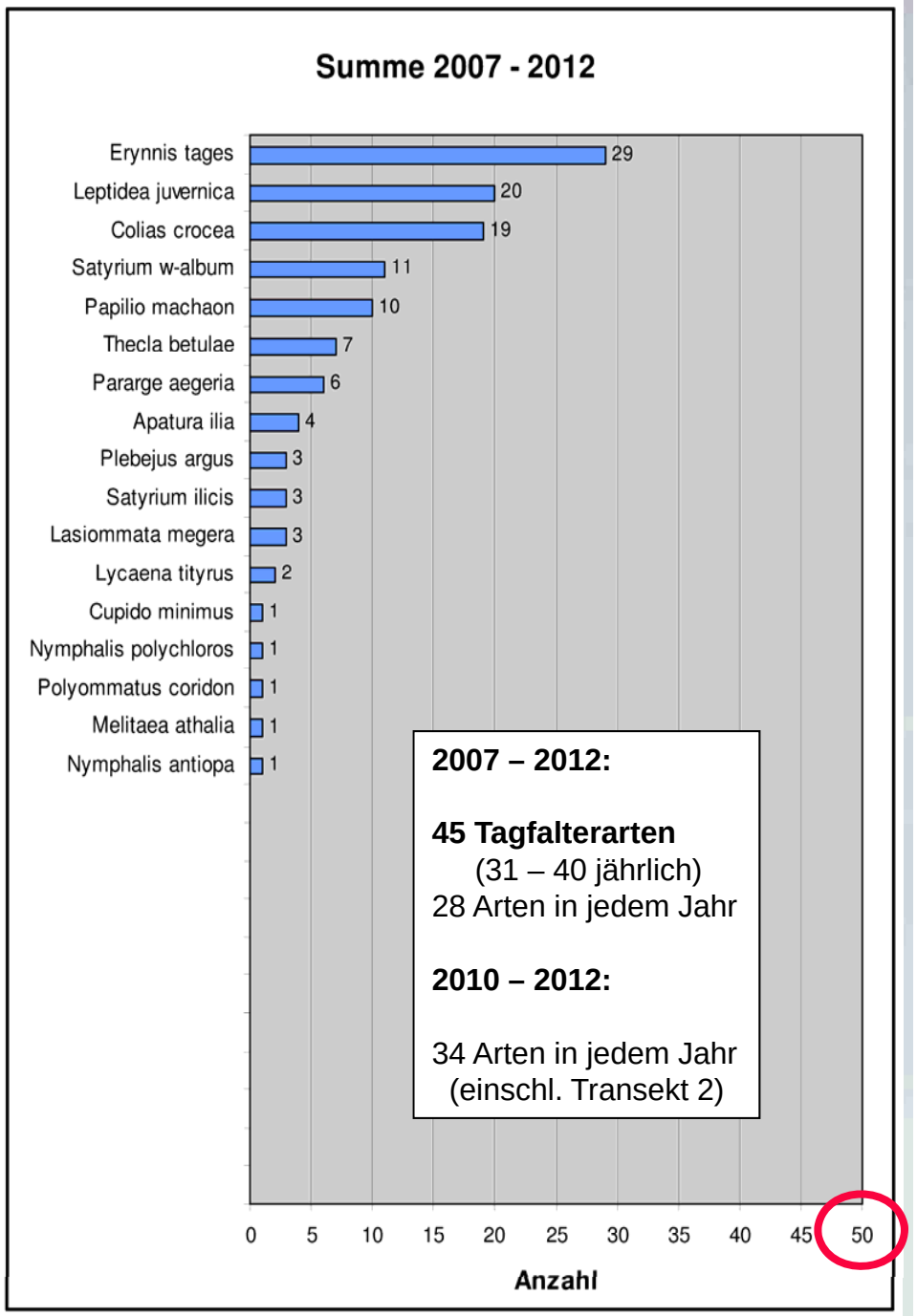
## Auswertung unter Berücksichtigung vieler Einflussfaktoren

## Überblick über Ergebnisse des Tagfalter-Monitorings am Bienitz

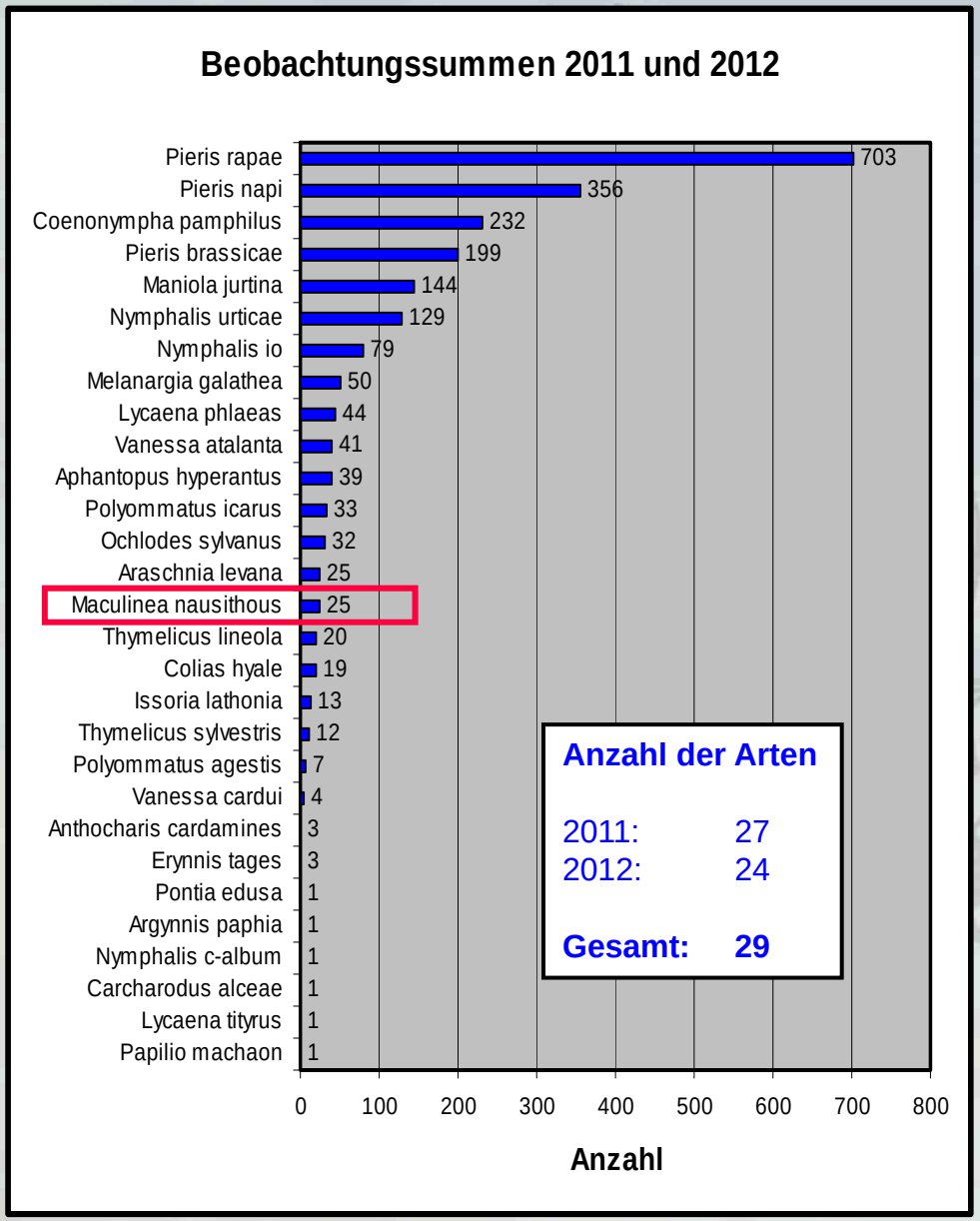
(D. und H. Wagler & Ronald Schiller (2012): 5 Jahre TMD am Bienitz. – Mitteilungen Sächsischer Entomologen 99: 15 – 43)

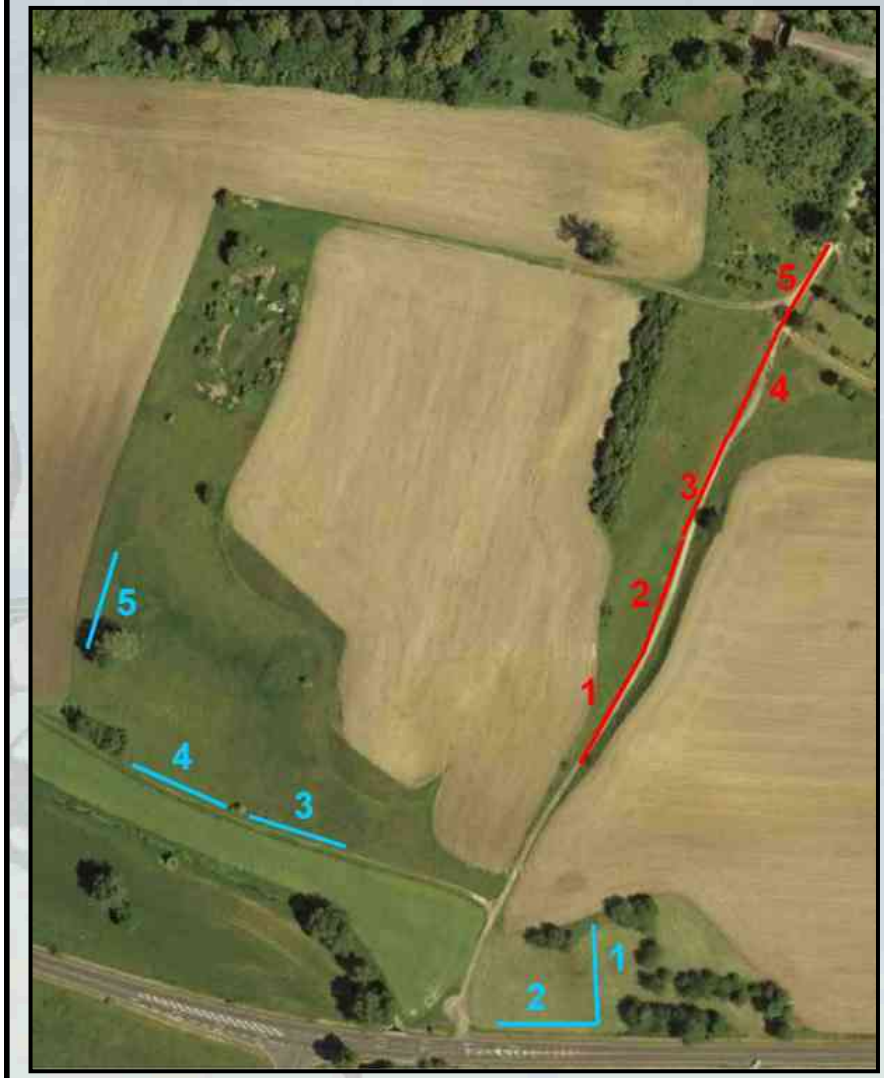
- **Liste der nachgewiesenen Arten mit Häufigkeitsklassen (jährlich)**
- **Detailauswertung zur Tagfaltererfassung**
  - Phänologie (Flugzeitbeginn, Erreichen der Maxima, ausgewählte Phänogramme…)
  - **Häufigkeitsverteilung der Arten**
  - **Jahrestrends im Vergleich mit Bundestrends**
- **Einflussfaktoren auf das Zählergebnis**
  - Wetter am Vortag – gute und schlechte Zähltage
  - Bewölkungsgrad am Zähltag – artspezifische Abnahme der Beobachtungszahlen
  - Pflegemaßnahmen / Änderungen des Managements
    abschnittsweise Auswertung
  - Blütenangebot im Transekt
- **Habitatbindungen / Verbreitungsschwerpunkte der Arten**

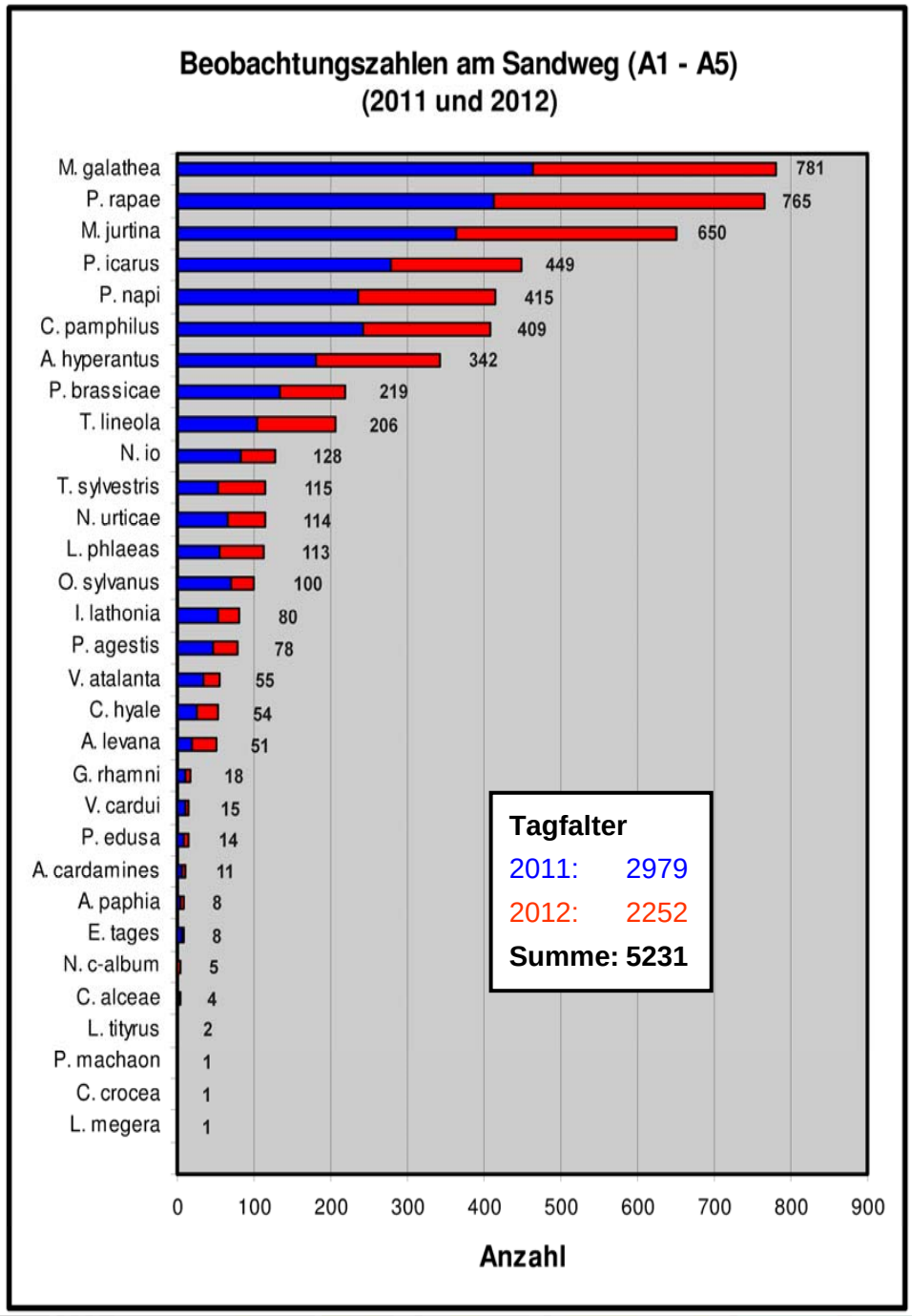

Gesamtbeobachtungen
Pieris rapae 5406
Pieris napi 4903
Maniola jurtina 4532
Aphantopus hyperantus 2668
Polyommatus icarus 2654
Melanargia galathea 2500
Pieris brassicae 2449
Coenonympha pamphilus 2174
Nymphalis io 1526
Araschnia levana 1116
Thymelicus lineola 839
Vanessa cardui 794
Ochlodes sylvanus 764
Lycaena phlaeas 753
Vanessa atalanta 591
Thymelicus sylvestris 570
Anthocharis cardamines 523
Polyommatus agestis 500
Issoria lathonia 456
Nymphalis c-album 445
Celastrina argiolus 397
Nymphalis urticae 287
Argynnis paphia 254
Gonepteryx rhamni 209
Colias hyale 201
Pontia edusa 145
Neozephyrus quercus 91
Carcharodus alceae 48
0 1000 2000 3000 4000 5000 6000
Anzahl

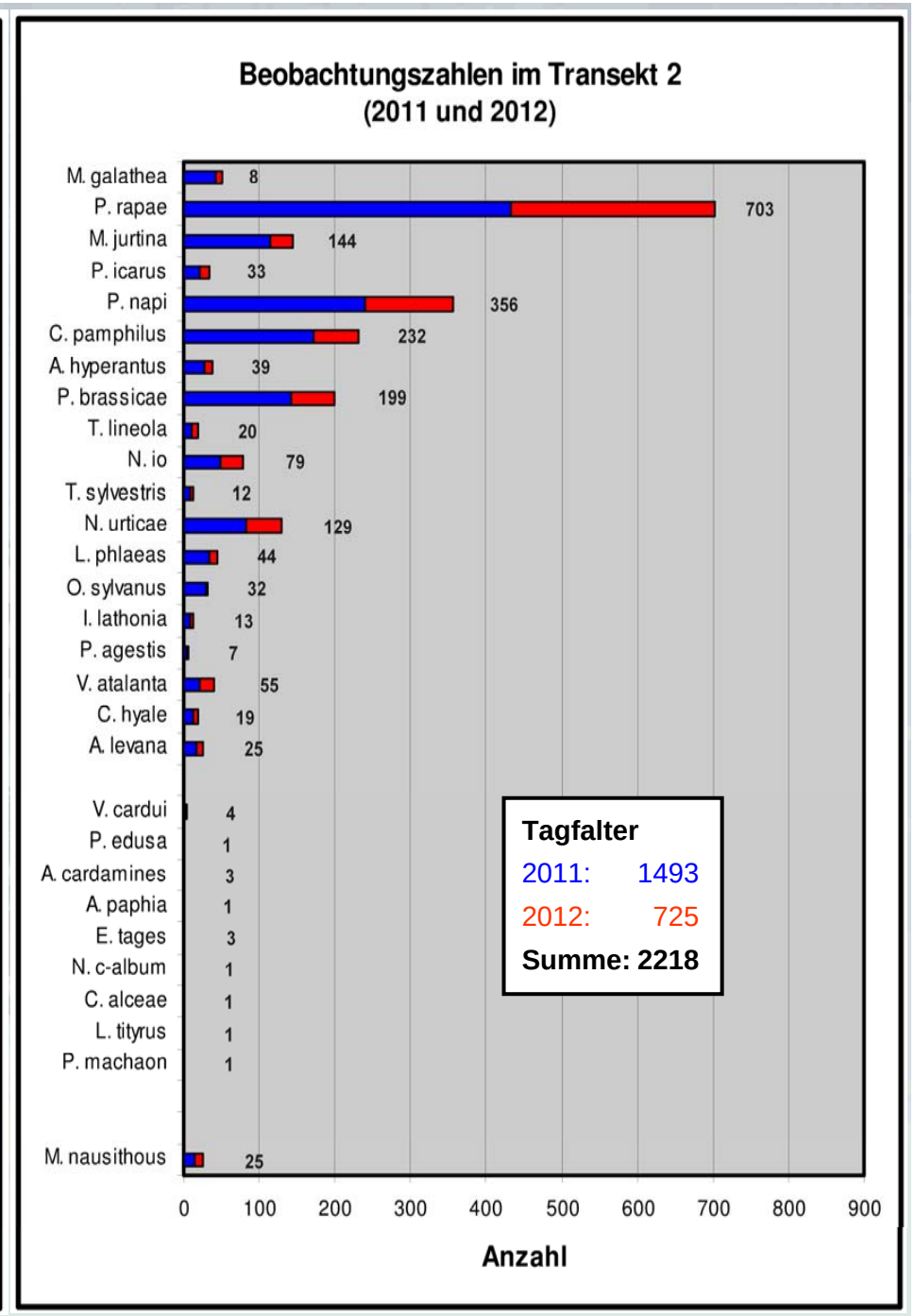

Summe 2007 - 2012
Erynnis tages 29
Leptidea juvernica 20
Colias crocea 19
Satyrium w-album 11
Papilio machaon 10
Thecla betulae 7
Pararge aegeria 6
Apatura ilia 4
Plebejus argus 3
Satyrium ilicis 3
Lasiommata megera 3
Lycaena tityrus 2
Cupido minimus 1
Nymphalis polychloros 1
Polyommatus coridon 1
Melitaea athalia 1
Nymphalis antiopa 1
0 5 10 15 20 25 30 35 40 45 50
Anzahl
2007 – 2012:
45 Tagfalterarten
(31 – 40 jährlich)
28 Arten in jedem Jahr
2010 – 2012:
34 Arten in jedem Jahr
(einschl. Transekt 2)

# Transekt 2

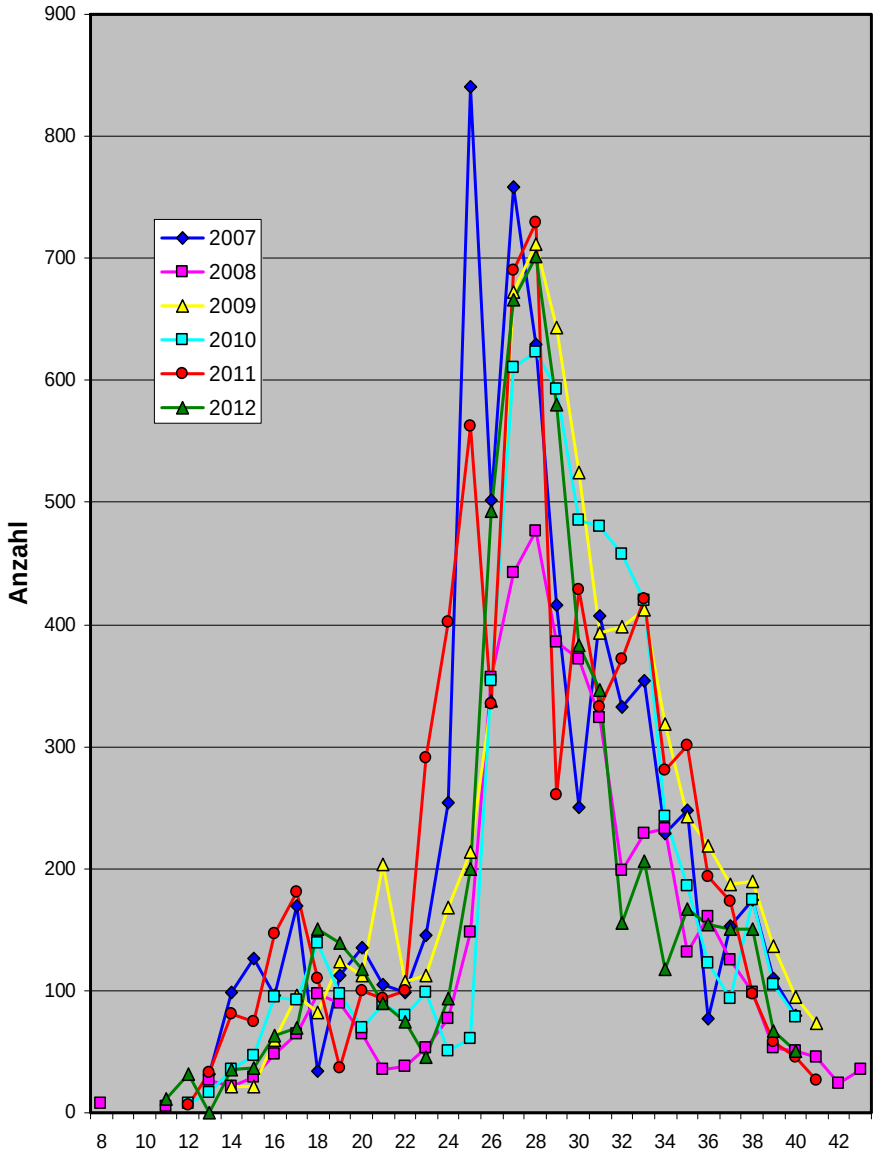

Beobachtungssummen 2011 und 2012
Pieris rapae 703
Pieris napi 356
Coenonympha pamphilus 232
Pieris brassicae 199
Maniola jurtina 144
Nymphalis urticae 129
Nymphalis io 79
Melanargia galathea 50
Lycaena phlaeas 44
Vanessa atalanta 41
Aphantopus hyperantus 39
Polyommatus icarus 33
Ochlodes sylvanus 32
Araschnia levana 25
Maculinea nausithous 25
Thymelicus lineola 20
Colias hyale 19
Issoria lathonia 13
Thymelicus sylvestris 12
Polyommatus agestis 7
Vanessa cardui 4
Anthocharis cardamines 3
Erynnis tages 3
Pontia edusa 1
Argynnis paphia 1
Nymphalis c-album 1
Carcharodus alceae 1
Lycaena tityrus 1
Papilio machaon 1
0 100 200 300 400 500 600 700 800
Anzahl
Anzahl der Arten
2011: 27
2012: 24
Gesamt: 29


5
4
3
2
1
5
4
3
2
1


Beobachtungszahlen am Sandweg (A1 - A5)
(2011 und 2012)
M. galathea 781
P. rapae 765
M. jurtina 650
P. icarus 449
P. napi 415
C. pamphilus 409
A. hyperantus 342
P. brassicae 219
T. lineola 206
N. io 128
T. sylvestris 115
N. urticae 114
L. phlaeas 113
O. sylvanus 100
I. lathonia 80
P. agestis 78
V. atalanta 55
C. hyale 54
A. levana 51
G. rhamni 18
V. cardui 15
P. edusa 14
A. cardamines 11
A. paphia 8
E. tages 8
N. c-album 5
C. alceae 4
L. tityrus 2
P. machaon 1
C. crocea 1
L. megera 1
0 100 200 300 400 500 600 700 800 900
Anzahl
Tagfalter
2011: 2979
2012: 2252
Summe: 5231

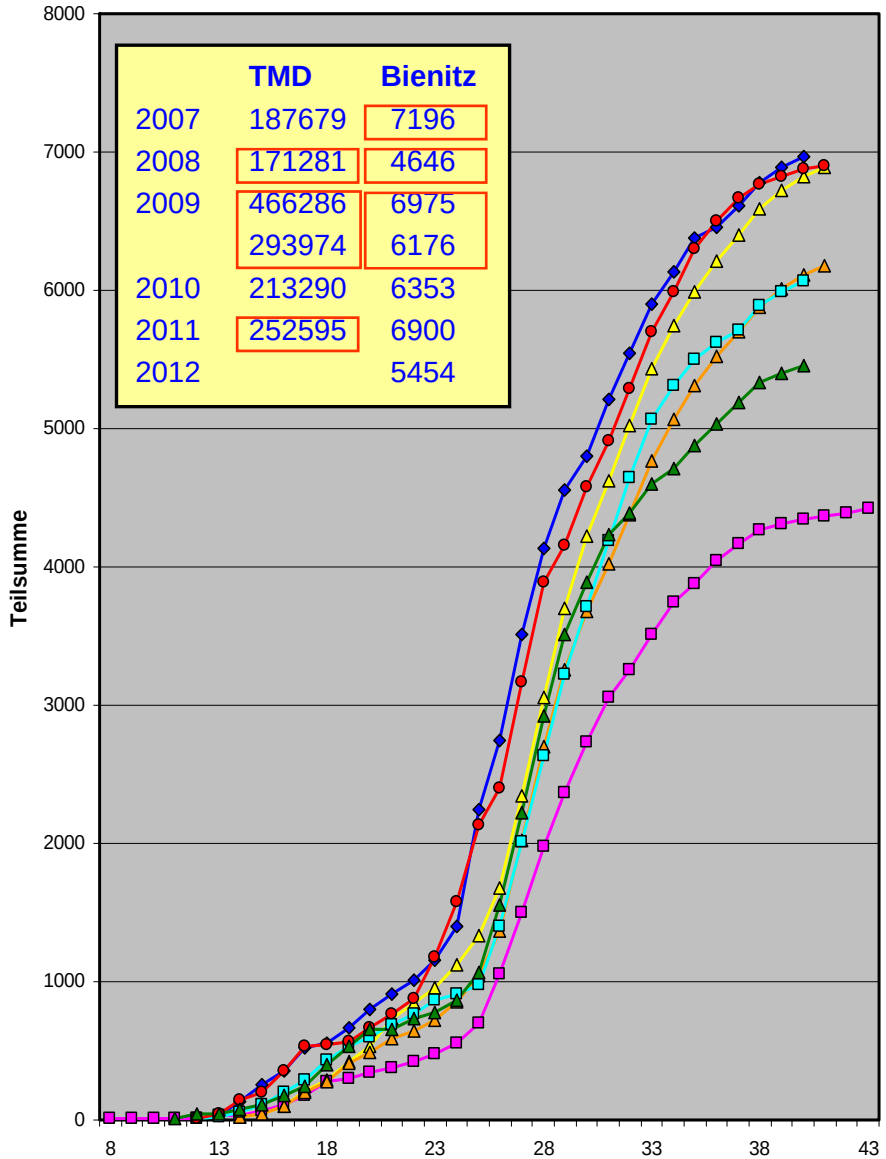

Beobachtungszahlen im Transekt 2
(2011 und 2012)
M. galathea 8
P. rapae 703
M. jurtina 144
P. icarus 33
P. napi 356
C. pamphilus 232
A. hyperantus 39
P. brassicae 199
T. lineola 20
N. io 79
T. sylvestris 12
N. urticae 129
L. phlaeas 44
O. sylvanus 32
I. lathonia 13
P. agestis 7
V. atalanta 55
C. hyale 19
A. levana 25
V. cardui 4
P. edusa 1
A. cardamines 3
A. paphia 1
E. tages 3
N. c-album 1
C. alceae 1
L. tityrus 1
P. machaon 1
M. nausithous 25
0 100 200 300 400 500 600 700 800 900
Anzahl
Tagfalter
2011: 1493
2012: 725
Summe: 2218

## Tagfalterindividuen pro Begehung



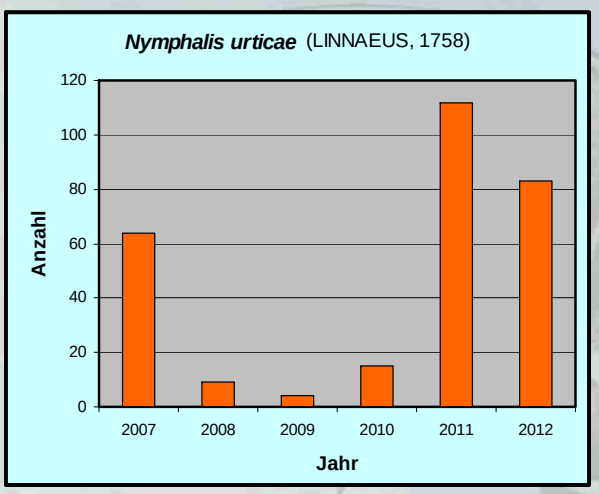

## Tagfalterbeobachtungen - aufsummiert

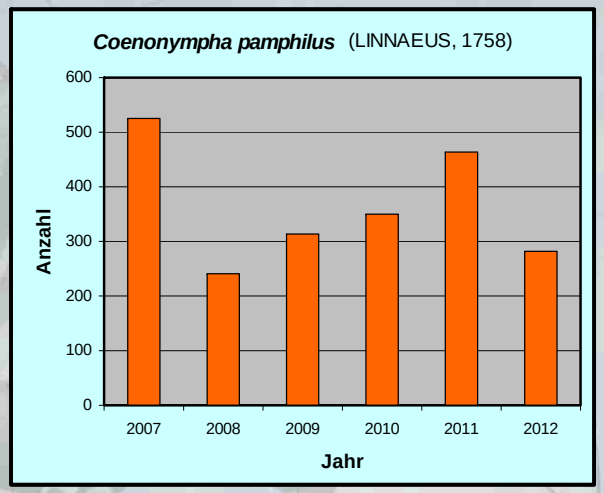
| | TMD | Bienitz |
|---|---|---|
| 2007 | 187679 | 7196 |
| 2008 | 171281 | 4646 |
| 2009 | 466286 | 6975 |
| | 293974 | 6176 |
| 2010 | 213290 | 6353 |
| 2011 | 252595 | 6900 |
| 2012 | | 5454 |

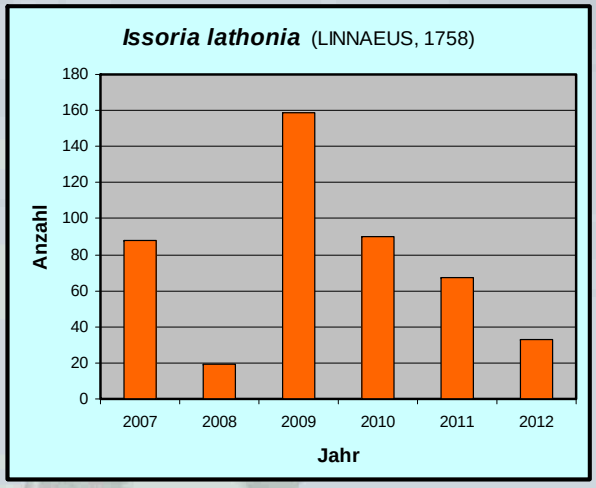


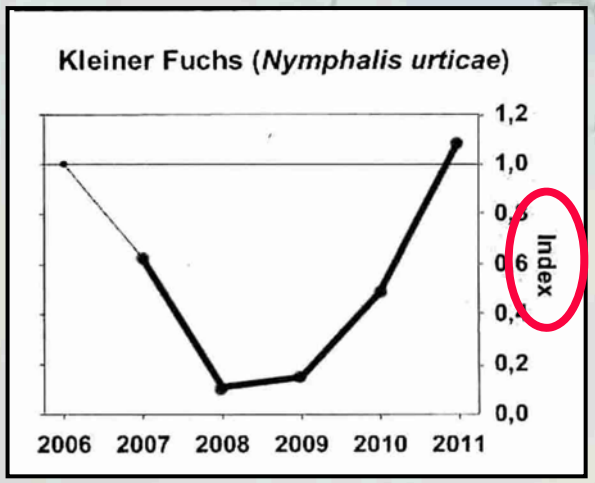
# Bestandsentwicklung ausgewählter Falterarten

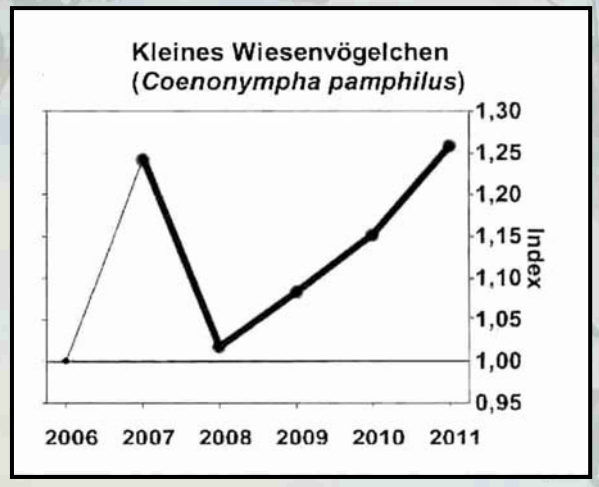
## Vergleich Transekt - Bundestrend

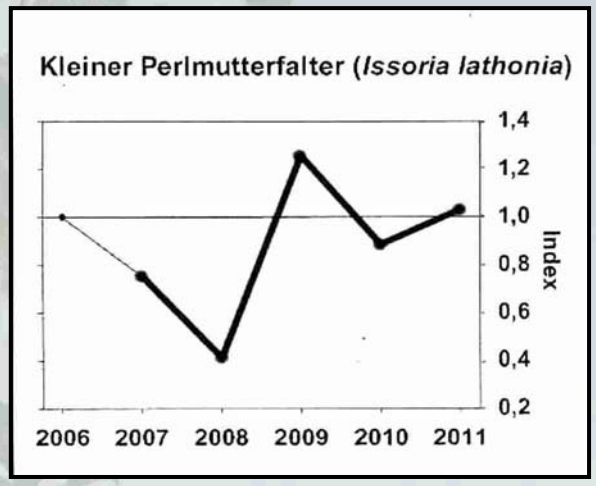


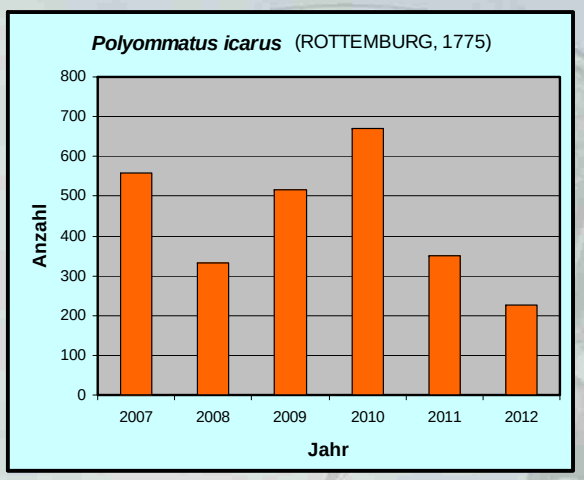



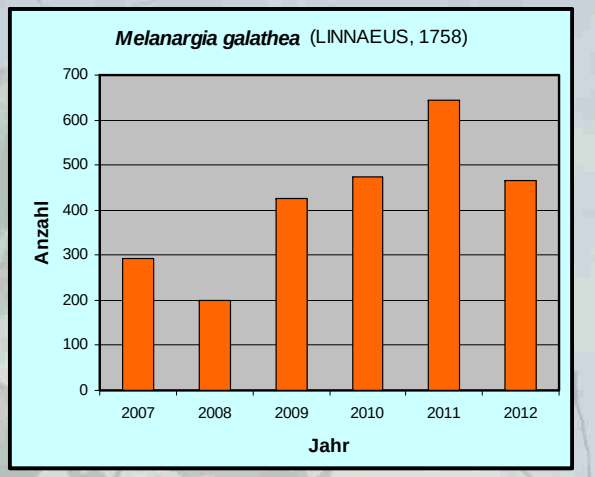



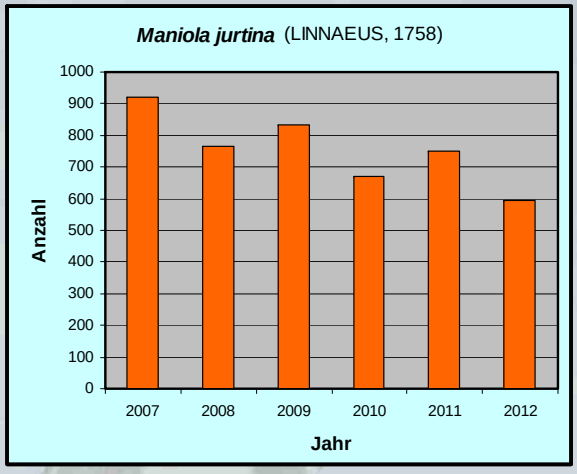



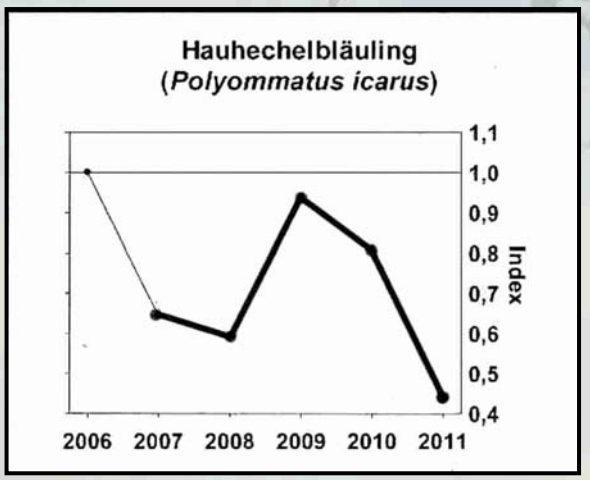
# Bestandsentwicklung ausgewählter Falterarten

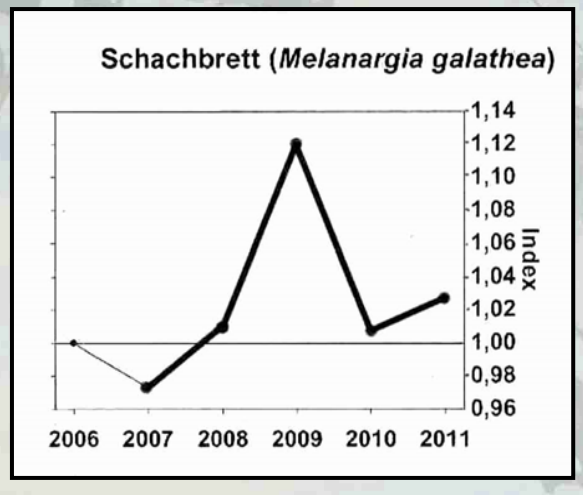
## Vergleich Transekt - Bundestrend

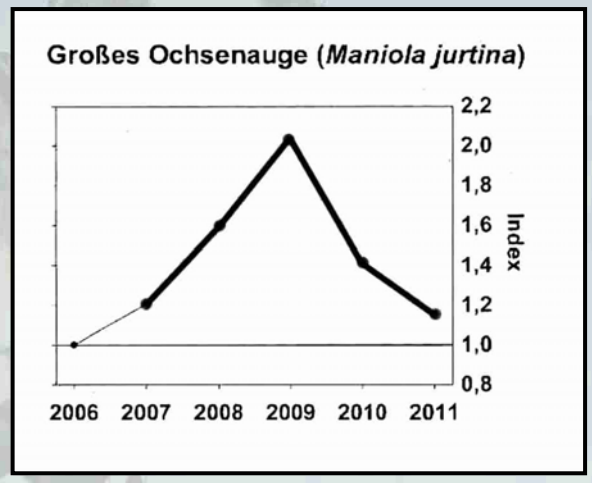


# Habitatbindung / Verbreitungsschwerpunkte der Arten

| Art | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Carcharodus alceae* | ■ | | | ■ | | ■ | | | | ■ | ■ | ■ | ■ | ■ |
| *Thymelicus lineola* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | · | | · | · | ■ |
| *Thymelicus sylvestris* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | · | | · | · | ■ |
| *Ochlodes sylvanus* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Anthocharis cardamines* | | · | · | · | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Pieris brassicae* | · | · | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Pieris rapae* | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| *Pieris napi* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Pontia edusa* | ■ | ■ | ■ | ■ | ■ | ■ | · | · | | | | | | · |
| *Colias hyale* | ■ | ■ | ■ | ■ | · | · | · | · | | | | · | · | ■ |
| *Gonepteryx rhamni* | · | | · | ■ | ■ | · | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Lycaena phlaeas* | ■ | · | · | ■ | ■ | ■ | ■ | ■ | ■ | · | · | · | · | · |
| *Neozephyrus quercus* | | | | | | | · | · | · | ■ | ■ | ■ | ■ | ■ |
| *Celastrina argiolus* | | | | | · | ■ | ■ | · | ■ | ■ | ■ | ■ | ■ | ■ |
| *Polyommatus agestis* | · | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | · | · | ■ |
| *Polyommatus icarus* | ■ | ■ | ■ | ■ | ■ | · | ■ | ■ | ■ | · | · | · | · | · |
| *Argynnis paphia* | · | | · | · | · | · | · | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Issoria lathonia* | ■ | ■ | ■ | ■ | · | · | ■ | ■ | · | · | · | · | ■ | ■ |
| *Vanessa atalanta* | ■ | ■ | ■ | ■ | · | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Vanessa cardui* | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | ■ |
| *Nymphalis io* | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | ■ | ■ | ■ | ■ |
| *Nymphalis urticae* | ■ | ■ | ■ | ■ | ■ | · | · | · | · | ■ | · | ■ | ■ | ■ |
| *Nymphalis c-album* | · | | · | · | · | ■ | · | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Araschnia levana* | · | · | · | · | · | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Coenononympha pamphilus* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | · | · | · | · | ■ |
| *Aphantopus hyperantus* | □ | ■ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| *Maniola jurtina* | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| *Melanargia galathea* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | · | · | · | · | ■ |
| | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 |

**Einteilung der Habitate :**

**Offenland/ Magerrasen**

**Magerrasen in einer Waldlichtung**

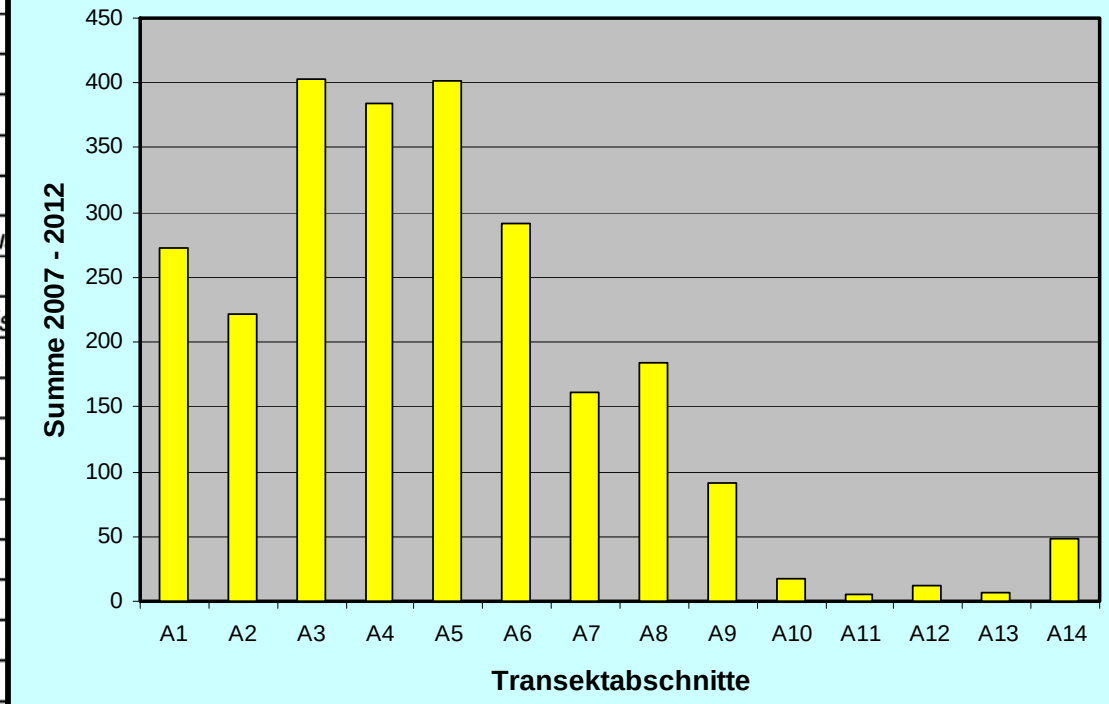
**Waldrand**

**Mischstandorte**

# Habitatbindung / Verbreitungsschwerpunkte der Arten

| Art | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Carcharodus alceae* | ■ | | | ■ | | ■ | | | | ■ | ■ | ■ | ■ | ■ |
| *Thymelicus lineola* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ▪ | | ▪ | ▪ | ■ |
| *Thymelicus sylvestris* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ▪ | | ▪ | ▪ | ■ |
| *Ochlodes sylvanus* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| *Anthocharis cardamin* | | | | | | | | | | | | | | |
| *Pieris brassicae* | | | | | | | | | | | | | | |
| *Pieris rapae* | | | | | | | | | | | | | | |
| *Pieris napi* | | | | | | | | | | | | | | |
| *Pontia edusa* | | | | | | | | | | | | | | |
| *Colias hyale* | | | | | | | | | | | | | | |
| *Gonepteryx rhamni* | | | | | | | | | | | | | | |
| *Lycaena phlaeas* | | | | | | | | | | | | | | |
| *Neozephyrus quercu* | | | | | | | | | | | | | | |
| *Celastrina argiolus* | | | | | | | | | | | | | | |
| *Polyommatus agestis* | | | | | | | | | | | | | | |
| *Polyommatus icarus* | | | | | | | | | | | | | | |
| *Argynnis paphia* | | | | | | | | | | | | | | |
| *Issoria lathonia* | | | | | | | | | | | | | | |
| *Vanessa atalanta* | | | | | | | | | | | | | | |
| *Vanessa cardui* | | | | | | | | | | | | | | |
| *Nymphalis io* | | | | | | | | | | | | | | |
| *Nymphalis urticae* | | | | | | | | | | | | | | |
| *Nymphalis c-album* | | | | | | | | | | | | | | |
| *Araschnia levana* | | | | | | | | | | | | | | |
| *Coenononympha pa* | | | | | | | | | | | | | | |
| *Aphantopus hyperantus* | □ | ■ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| *Maniola jurtina* | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| *Melanargia galathea* | ■ | ▪ | ■ | ■ | ■ | ■ | ▪ | ▪ | ▪ | ▪ | ▪ | ▪ | ▪ | ■ |
| | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 |

***Melanargia galathea*** (LINNAEUS, 1758)




**Einteilung der Habitate :**

**Offenland/ Magerrasen**

**Magerrasen in einer Waldlichtung**

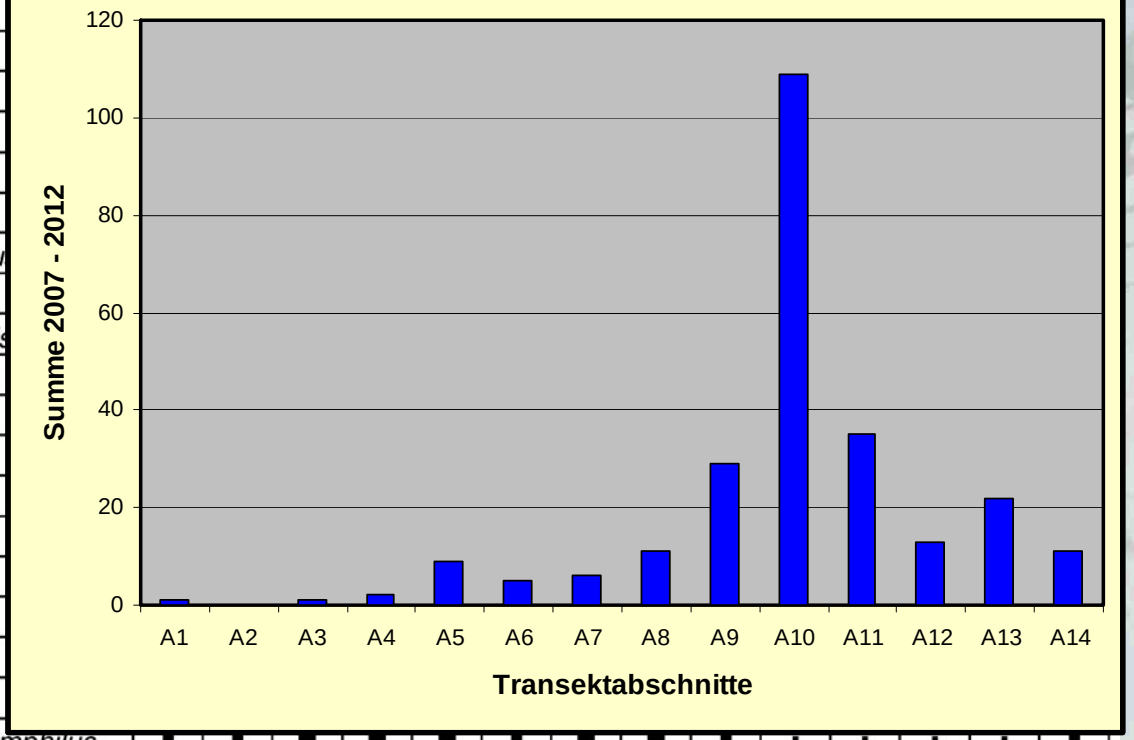
**Waldrand**

**Mischstandorte**

# Habitatbindung / Verbreitungsschwerpunkte der Arten

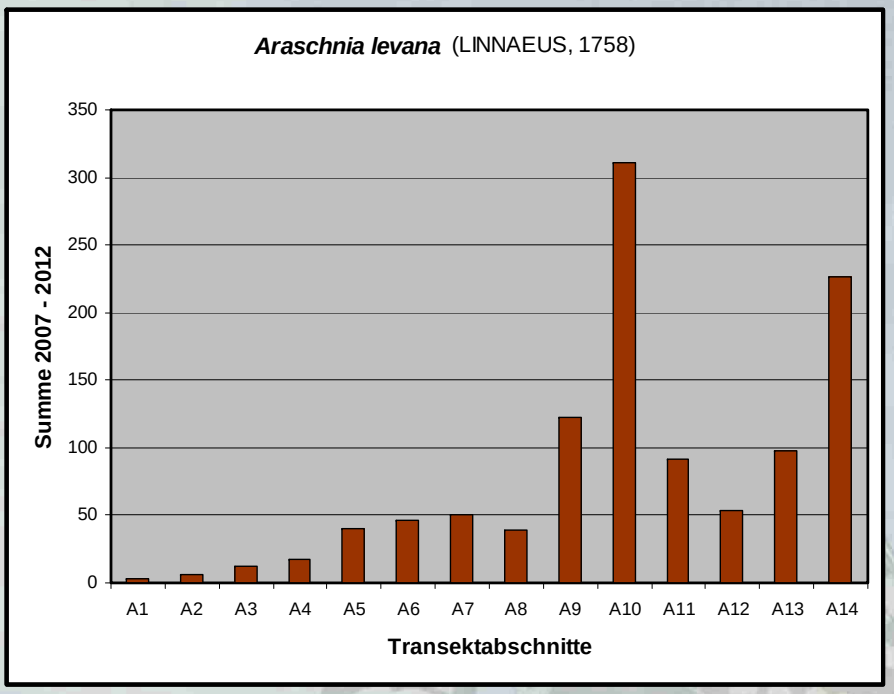
| Art | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Carcharodus alceae* | ■ | | | ■ | | ■ | | | | ■ | ■ | ■ | ■ | ■ |
| *Thymelicus lineola* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | · | | · | · | ■ |
| *Thymelicus sylvestris* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | · | | · | · | ■ |
| *Ochlodes sylvanus* | | | | | | | | | | | | | | |
| *Anthocharis cardamin* | | | | | | | | | | | | | | |
| *Pieris brassicae* | | | | | | | | | | | | | | |
| *Pieris rapae* | | | | | | | | | | | | | | |
| *Pieris napi* | | | | | | | | | | | | | | |
| *Pontia edusa* | | | | | | | | | | | | | | |
| *Colias hyale* | | | | | | | | | | | | | | |
| *Gonepteryx rhamni* | | | | | | | | | | | | | | |
| *Lycaena phlaeas* | | | | | | | | | | | | | | |
| *Neozephyrus quercu* | | | | | | | | | | | | | | |
| *Celastrina argiolus* | | | | | | | | | | | | | | |
| *Polyommatus agestis* | | | | | | | | | | | | | | |
| *Polyommatus icarus* | | | | | | | | | | | | | | |
| *Argynnis paphia* | | | | | | | | | | | | | | |
| *Issoria lathonia* | | | | | | | | | | | | | | |
| *Vanessa atalanta* | | | | | | | | | | | | | | |
| *Vanessa cardui* | | | | | | | | | | | | | | |
| *Nymphalis io* | | | | | | | | | | | | | | |
| *Nymphalis urticae* | | | | | | | | | | | | | | |
| *Nymphalis c-album* | | | | | | | | | | | | | | |
| *Araschnia levana* | | | | | | | | | | | | | | |
| *Coenononympha pamphilus* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | · | · | · | · | ■ |
| *Aphantopus hyperantus* | □ | ■ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| *Maniola jurtina* | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| *Melanargia galathea* | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | · | · | · | · | ■ |
| | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 |

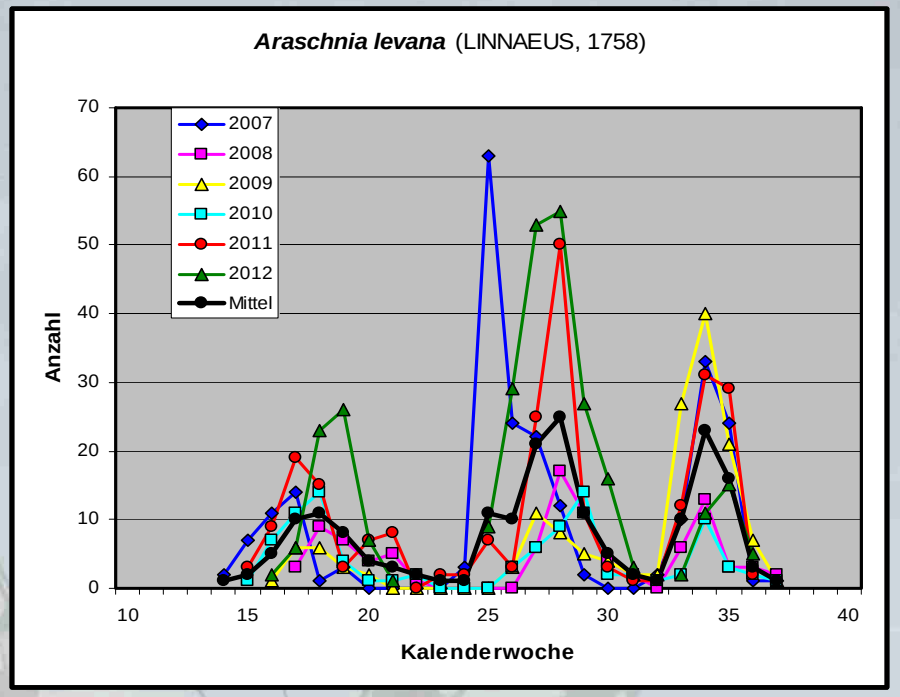
***Argynnis paphia*** (LINNAEUS, 1758)

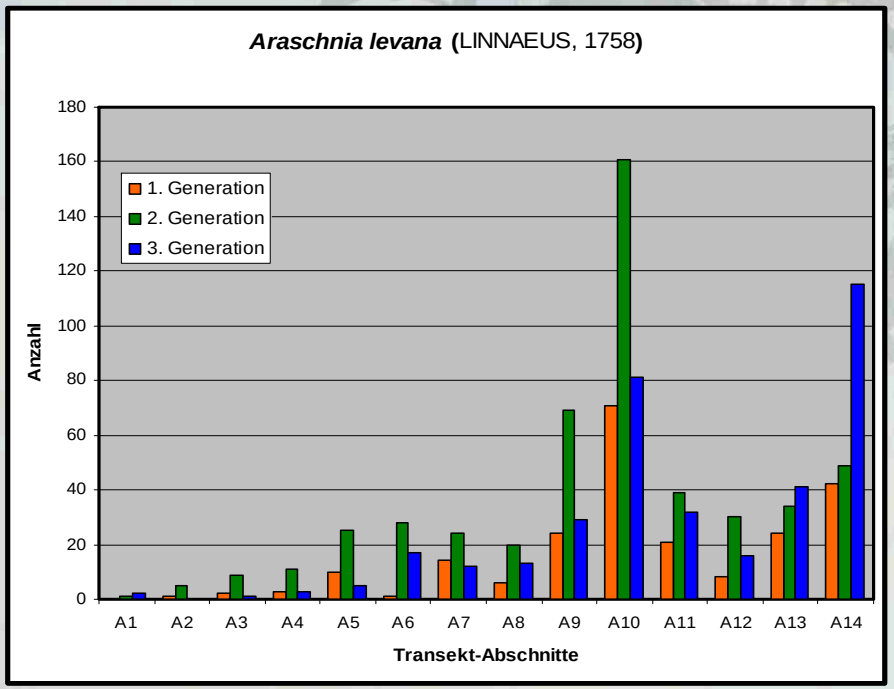


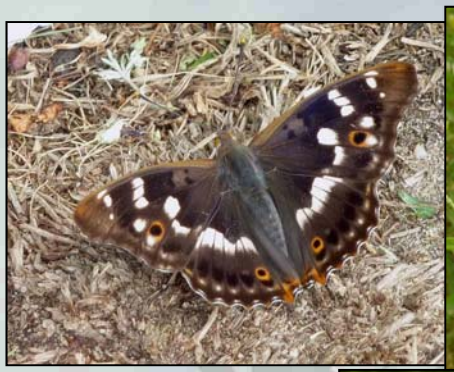

**Einteilung der Habitate :**

- Offenland/ Magerrasen
- Magerrasen in einer Waldlichtung
- Waldrand
- Mischstandorte


Araschnia levana (LINNAEUS, 1758)
Summe 2007 - 2012
0
50
100
150
200
250
300
350
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
Transektabschnitte


Araschnia levana (LINNAEUS, 1758)
Anzahl
0
10
20
30
40
50
60
70
2007
2008
2009
2010
2011
2012
Mittel
10
15
20
25
30
35
40
Kalenderwoche


Araschnia levana (LINNAEUS, 1758)
Anzahl
0
20
40
60
80
100
120
140
160
180
1. Generation
2. Generation
3. Generation
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
Transekt-Abschnitte



Vielen Dank

für Ihre

Aufmerksamkeit !