

U e b e r s i c h t

der

im Jahre 1874

in Mähren und österr. Schlesien, sowie zu Freistadt in Ober-Oesterreich
angestellten phänologischen Beobachtungen.

Die nachfolgenden Beobachtungen verdankt der Verein den Herren:
Professor Adolf Oborny in Znaim; Johann Gans in Bärn; Professor
Emanuel Urban in Freistadt und Professor Anton Tomaschek in Brünn.

I. Pflanzenreich.

1. Bäume und strauchartige Gewächse.

a) Laubentfaltung.

Znaim.

Acer campestre 16.4, A. platanoides 10.4, Aesculus Hippocastanum 6.4,
Betula alba 6.4, Berberis vulgaris 16.4, Cotoneaster vulgaris 6.4, Crataegus
Oxyacantha 15.4, Evonymus europaeus 5.4, E. verrucosus 6.4, Ligustrum vul-
gare 12.4, Lonicera Caprifolium 24.3, Pinus Larix 13.4, Prunus avium 12.4, P.
Padus 4.4, Pyrus communis 17.4, P. Malus 15.4, Ribes aureum 12.4, R. Gros-
sularia 2.4, Rosa canina 5.4, Salix fragilis 6.4, Sambucus nigra 29.3, Syringa
vulgaris 4.4, Tilia grandifolia 12.4.

Brünn.

Aesculus Hippocastanum: Oeffnen der gemischten Knospe 8.4, ausge-
breitete Blätter 14.4.

Bärn:

Aesculus Hippocastanum 12.5, Alnus glutinosa 3.6, Betula alba 12.5,
Corylus Avellana 4.5, Fagus silvatica 12.5, Fraxinus excelsior 28.5, Pinus Larix
5.5, Prunus avium 23.5, P. Padus 5.5, Pyrus communis 23.5, P. Malus 23.5,
Ribes Grossularia 15.4, Robinia Pseud' Acacia 4.6, Rosa canina 6.5, Rubus
idaeus 12.5, Salix capraea 28.5, Sambucus nigra 6.5, Tilia grandifolia 23.5, T.
parvifolia 28.5, Ulmus campestris 28.5.

b) Blüthe.

Beobachtete Pflanze	Znaim	Freistadt Ob. Oesterr.	Brünn	Bärn
<i>Acer campestre</i>	25.4	—	—	12.5
„ <i>platanoides</i>	13.4	22.4	7.4, 12.4 V.	7.5
<i>Aesculus Hippocastanum</i>	27.4	2.6	—	4.6
<i>Alnus glutinosa</i>	21.3	4.4	—	5.4
<i>Berberis vulgaris</i>	13.5	2.6	—	4.6
<i>Betula alba</i>	16.4	22.4	14.4	27.4
<i>Calluna vulgaris</i>	—	5.8	—	8.8
<i>Cornus mas</i>	5.4	—	14.4	—
<i>Cydonia vulgaris</i>	24.5	—	—	—
<i>Corylus Avellana</i>	2.3	28.3	6.3	28.3
<i>Crataegus Oxyacantha</i>	7.5	—	12.5, 20.5 V.	9.6
<i>Cytisus Laburnum</i>	19.5	—	—	20.6
<i>Daphne Mezereum</i>	—	3.4	1.3	4.4
<i>Fraxinus excelsior</i>	29.4	—	—	12.5
<i>Genista germanica</i>	26.5	—	25.5	—
„ <i>tinctoria</i>	28.5	—	27.5	—
<i>Juglans regia</i>	26.4	—	26.4	—
<i>Ligustrum vulgare</i>	8.6	—	14.7	—
<i>Lonicera Caprifolium</i>	25.5	10.6	—	—
„ <i>Xylosteum</i>	1.5	—	10.5	4.6
<i>Lycium barbarum</i>	7.5	—	25.4	—
<i>Persica vulgaris</i>	13.4	12.5	16.4	—
<i>Philadelphus coronarius</i>	7.6	3.7	1.6	22.6
<i>Pinus silvestris</i>	27.5	29.5	—	—
<i>Populus pyramidalis</i>	6.4	—	12.4	25.4
„ <i>tremula</i>	28.3	4.4	30.3	11.4
<i>Prunus armeniaca</i>	13.4	—	15.4	—
„ <i>avium</i>	14.4	26.4	17.4	12.5
„ <i>Cerasus</i>	23.4	—	—	20.5
„ <i>domestica</i>	18.4	—	18.4	1.6
„ <i>Padus</i>	18.4	16.5	22.4	27.5
„ <i>spinosa</i>	14.4	25.4	19.4	23.5
<i>Pyrus communis</i>	22.4	25.4	23.4	30.5
„ <i>Malus</i>	29.4	—	1.5	25.5
<i>Rhamnus Frangula</i>	1.6	12.6	3.6	22.6
<i>Ribes aureum</i>	20.4	—	22.4	—
„ <i>Grossularia</i>	16.4	22.4	17.4	23.4
„ <i>rubrum</i>	22.4	—	18.4	26.4
<i>Robinia Pseud-Acacia</i>	2.6	—	1.6	26.6
<i>Rosa canina</i>	1.6	14.6	3.6	23.6
<i>Salix Capraea</i>	1.4	—	6.4	—
<i>Salix fragilis</i>	16.4	—	16.4	—
<i>Sambucus nigra</i>	1.6	10.6	29.5	20.6
„ <i>racemosa</i>	26.4	22.5	—	—
<i>Sorbus Aucuparia</i>	15.4	2.6	—	5.6
<i>Staphylea pinnata</i>	7.5	—	26.4	—
<i>Syringa vulgaris</i>	29.4	2.6	26.4	4.6
<i>Tilia grandifolia</i>	21.6	—	19.7	12.7
„ <i>parvifolia</i>	1.7	15.7	30.6	22.7
<i>Ulmus campestris</i>	2.4	10.4	31.3	22.4
<i>Vaccinium Myrtillus</i>	25.4	—	—	20.5
<i>Viburnum Lantana</i>	7.5	—	29.5	—
„ <i>Opulus</i>	5.6	7.6	—	19.6
<i>Vinca minor</i>	11.4	—	22.4	—

Ausserdem wurden notirt in

Znaim:

Amygdalus communis 7.4, *Evonymus verrucosus* 15.5, *Quercus pedunculata* 6.5, *Ulmus effusa* 5.4, *Viscum album* 6.4, *Vitis vinifera* 19.6.

Freistadt:

Buxus sempervirens 20.4, *Pinus Larix* 20.4, *Populus nigra* 20.4, *Rhamnus cathartica* 5.6, *Rubus fruticosus* 20.6, *Salix purpurea* 14.5, *Spiraea salicifolia* 12.7, *Vaccinium Oxycoccus* 4.7.

Brünn:

Acer dasycarpus 31.3, *A. Negundo* 15.4, *Ailanthus glandulosa* 27.6, *Ampelopsis quinquefolia* 8.8, *Catalpa syringifolia* 27, 12.7 V., *Cytisus nigricans* 14.7, *Daphne Cneorum* 25.4, *Gleditschia triacanthos* 19.7, *Lonicera tatarica* 12.5, *Populus balsamifera* 6.4, *Prunus Mahaleb* 24.4, *Ptelea trifoliata* 13.7, *Ribes alpinum* 22.4.

Bärn:

Fagus silvatica 3.6, *Lonicera nigra* 2.6, *Rosa arvensis* 12.6, *R. centifolia* 6.7, *Rubus idaeus* 21.6, *R. caesius* 25.6, *Vaccinium Vitis idaea* 6.6.

c. Fruchtreife.

Bärn.

Corylus Avellana 18.8, *Crataegus Oxyacantha* 5.9, *Daphne Mezereum* 14.7, *Fagus silvatica* 17.9, *Prunus avium* 24.7, *P. domestica* 17.9, *Pyrus communis* 1.9, *P. Malus* 1.9, *Ribes Grossularia* 19.7, *R. rubrum* 22.7, *Rubus caesius* 18.8, *R. idaeus* 27.8, *Vaccinium Myrtillus* 10.7, *Ulmus campestris* 24.6,

Freistadt:

Populus tremula 25.5, *Rubus idaeus* 14.7.

2. Krautartige Gewächse.

a) Blüthe.

Beobachtete Pflanze	Znaim	Freistadt	Brünn	Bärn
<i>Achillea Millefolium</i>	6.6	—	14.6	3.7
<i>Agrimonia Eupatorium</i>	—	15.7	—	23.7
<i>Agrostemma Githago</i>	8.6	23.6	—	1.7
<i>Ajuga genevensis</i>	4.5	—	—	20.5
„ <i>reptans</i>	27.4	20.5	24.4	1.6
<i>Alchemilla vulgaris</i>	—	21.5	—	6.5
<i>Alopecurus pratensis</i>	9.5	22.5	—	—
<i>Althaea officinalis</i>	—	17.7	—	14.8
<i>Anemone Hepatica</i>	19.3	4.4	—	31.3

a) Blüthe.

Beobachtete Pflanze	Znaim	Freistadt	Brünn	Bärn
Anemone nemorosa	4.4	4.4	8.4	5.4
„ ranunculoides	5.4	—	8.4	—
Anthemis tinctoria	6.6	7.7	20.6	10.7
Anthoxanthum odoratum	29.4	21.5	—	—
Aquilegia vulgaris	25.5	7.6	26.5	8.6
Asarum europaeum	12.4	—	—	24.4
Astragalus glycyphyllos	—	12.7	—	2.6
Barbarea vulgaris	27.4	16.5	12.5	—
Caltha palustris	14.4	2.4	17.4	14.4
Campanula persicifolia	—	28.6	14.6	—
Cardamine pratensis	26.4	21.4	—	—
Carex praecox	—	12.4	—	4.5
Carum Carvi	29.4	21.5	—	6.6
Centaurea Cyanus	27.5	8.6	4.6	17.6
„ Scabiosa	—	—	8.7	17.7
Cerastium arvense	18.4	16.5	—	—
Chelidonium majus	28.4	—	25.4	29.5
Chrysanthemum Leucanthemum	20.5	1.6	29.5	18.6
Chrysosplenium alternifolium	13.4	—	12.4	10.4
Convallaria majalis	9.5	—	—	4.6
Convolvulus arvensis	—	28.6	—	16.7
Corydalis cava	29.3	22.4	—	—
„ digitata	25.3	—	8.4	19.4
Cychoium Intybus	5.7	—	—	1.8
Digitalis grandiflora	22.6	18.7	14.6	—
Draba verna	20.3	4.4	—	15.4
Echium vulgare	6.6	23.6	14.6	19.6
Euphrasia officinalis	—	5.7	—	29.7
Fragaria elatior	13.4	—	—	3.6
„ vesca	25.4	21.5	20.4	28.4
*Fritillaria Imperialis	23.4	—	—	7.5
Fumaria officinalis	—	—	26.5	5.5
Gagea arvensis	2.4	—	—	16.4
Galanthus nivalis	2.3	23.3	—	—
Galeobdolon luteum	3.5	—	—	30.5
Galium verum	7.6	12.7	30.6	8.7
Geranium Robertianum	6.5	—	26.5	—
Geum urbanum	26.5	—	—	19.6
Glechoma hederacea	14.4	21.4	—	5.5
Gnaphalium dioicum	2.5	—	27.4	23.5
Hesperis matronalis	27.5	—	26.5	12.6
Hieracium Pilosella	14.5	—	—	8.6
Holosteum umbellatum	4.4	—	8.4	—
Hypericum perforatum	12.6	5.7	19.6	—
Jasione montana	10.6	27.6	14.6	—
Knautia arvensis	—	6.6	26.5	—
Lamium album	26.4	—	27.4	28.4
„ maculatum	6.4	—	23.4	—
Lathraea squamaria	14.4	—	12.4	—
*Lilium bulbiferum	8.6	—	—	26.6
* „ candidum	—	18.7	—	22.7
Lilium Martagon	25.6	—	—	2.7
Linaria vulgaris	6.6	2.7	—	5.7

a) Blüthe.

Beobachtete Pflanze	Znaim	Freistadt	Brünn	Bärn
Lithospermum arvense	—	12.4	—	19.5
Lychnis Flos cueuli	17.5	—	—	6.6
„ Viscaria	2.5	—	27.5	6.6
Lysimachia Nummularia	—	7.7	—	4.7
Melampyrum arvense	—	—	19.6	15.7
Menyanthes trifoliata	—	10.6	—	20.6
Myosotis palustris	—	21.5	27.4	—
Orchis maculata	—	30.5	—	31.5
„ Morio	30.4	21.5	14.5	—
Orobis vernus	12.4	16.5	17.4	—
Oxalis Acetosella	18.4	25.4	12.4	26.4
*Paeonia officinalis	26.5	7.6	26.5	9.6
Papaver somniferum	—	10.7	—	23.7
Pisum sativum	8.6	—	—	10.7
Plantago lanceolata	8.5	—	—	28.5
„ media	—	21.5	26.5	7.6
Platanthera bifolia	6.6	21.6	14.6	—
Polygala vulgaris	17.5	—	13.5	1.6
Polygonum Bistorta	20.6	1.6	—	—
„ Convolvulus	1.7	—	—	19.7
Potentilla anserina	22.5	—	—	6.6
„ argentea	—	6.6	—	21.6
„ verna	28.3	12.4	8.4	—
Primula elatior	14.4	2.4	8.4	—
„ officinalis	6.4	—	—	13.4
Pulmonaria officinalis	28.3	4.4	8.4	6.4
Ranunculus acris	27.4	—	—	29.5
„ bulbosus	—	21.5	27.5	—
„ Ficaria	5.4	—	8.4	12.4
Salvia pratensis	9.5	—	13.5	—
Saxifraga granulata	29.4	—	12.5	31.5
Scrophularia nodosa	27.6	—	—	21.6
Secale cereale	26.5	11.6	—	15.6
Sedum acre	4.6	—	3.6	25.6
Senecio Jacobaea	1.7	7.7	—	18.7
Solanum Dulcamara	6.6	—	—	27.6
„ tuberosum	26.5	7.7	30.6	15.7
Spiraea Ulmaria	—	11.7	—	7.7
Stellaria Holostea	19.4	—	—	19.5
Symphytum officinale	6.5	—	—	4.6
Taraxacum officinale	5.4	—	—	4.5
Tragopogon orientale	13.5	—	29.5	13.6
Trifolium pratense	29.4	—	26.5	9.6
Triticum vulgare	11.6	23.6	—	—
Tussilago Farfara	2.3	—	—	3.4
Urtica urens	6.6	—	—	24.6
Valeriana dioica	—	20.5	14.5	—
Veronica hederifolia	25.3	—	8.4	—
„ triphyllus	2.4	12.4	8.4	—
Vicia sativa	10.6	—	—	5.7
Viola arvensis	5.4	12.4	—	28.4
„ odorata	24.3	12.4	8.4	14.4
„ palustris	—	25.4	—	6.5

Ausserdem wurden notirt in

Znaim:

Adonis aestivalis 25.5, Adoxa moschatellina 11.4, Anchusa officinalis 3.5, Anemone Pulsatilla 8.3, Arabis arenosa 5.4, Campanula rotundifolia 29.5, Cerastium triviale 28.4, Convallaria Polygonatum 27.4, Delphinium Consolida 17.5, Dianthus Carthusianorum 10.5, Euphorbia Cyparissias 10.4, Farsetia incana 9.5, Gagea lutea 28.3, Geranium Robertianum 6.5, Hyoscyamus niger 22.5, Isopyrum thalictroides 6.4, Lamium purpureum 24.3, Myosotis silvatica 27.4, Myosurus minimus 26.4, Ornithogalum umbellatum 10.5, Papaver Rhoeas 8.5, Rumex Acetosa 29.4, Sisymbrium Alliaria 29.4, Turritis glabra 27.5, Veronica Chamaedrys 26.4.

Freistadt:

Acorus Calamus 13.6, Campanula patula 5.6, C. rapunculoides 15.7, Cardamine amara 3.5, C. hirsuta 4.4, Carex Davalliana 21.4, Cineraria crispa 9.5, Cochlearia Armoracia 8.6, C. officinalis 20.6, Coronilla varia 23.6, Crocus vernus 4.4, Cynosurus cristatus 2.7, Dianthus deltoides 27.6, Fedia olitoria 21.5, Geranium pusillum 1.6, Heracleum Sphondylium 12.7, Iris Pseud' Acorus 13.6, I. sibirica 13.6, Leucojum vernum 4.4, Linum catharticum 15.7, Lotus corniculatus 5.6, Luzula campestris 9.4, Lychnis diurna 14.5, Lysimachia vulgaris 18.7, Lythrum Salicaria 18.7, Mercurialis perennis 12.4, Parnassia palustris 5.8, Petasites albus 11.4, Phyteuma nigrum 5.6, Polemonium caeruleum 5.6, Potentilla reptans 18.7, Ranunculus Flammula 21.5, R. sceleratus 3.6, Sambucus Ebulus 8.8, Silene inflata 27.6, nutans 7.6, Soldanella montana 5.4, Spiraea Aruncus 27.6, Succisa pratensis 5.8, Thalictrum aquilegifolium 1.6, Veronica agrestis 12.4, V. officinalis 25.6, Vicia sepium 5.6.

Brünn:

Alisma Plantago 27.6, Allium ursinum 13.5, Androsace elongata 12.4, Anthemis arvensis 26.5, Antirrhinum majus 3.6, Asperugo procumbens 27.4, Ballota nigra 8.7, Bromus mollis 14.6, Butomus umbellatus 27.6, Camelina sativa 25.4, Campanula pyramidalis *19.6, Caucalis daucoides 14.6, Centaurea axillaris 26.5, C. paniculata 30.6, Ceratocephalus orthoceras 1.4, Cerinthe minor 26.5, Cynanchum Vincetoxicum 14.6, Digitalis purpurea *19.6, Epilobium roseum 14.6, Eriophorum latifolium 14.6, Euphorbia epithymoides 2.5, E. helioscopia 8.4, Erysimum orientale 13.5, Hieracium murorum 14.6, H. praealtum 14.6, Linaria genistifolia 14.6, Lithospermum officinale 27.4, Lychnis dioica 26.5, Medicago lupulina 26.5, Melilotus officinalis 14.6, Nonnea pulla 24.4, Oenothera biennis 27.6, Onobrychis sativa 26.5, Orchis fusca 14.5, Paris quadrifolia 13.5, Polygonum Fagopyrum 30.6, Potentilla opaca 8.4, Ranunculus auricomus 20.4, R. lanuginosus 12.5, R. reptans 26.5, Reseda lutea 29.5, Rhinanthus minor 29.5, Saponaria officinalis 8.7, Saxifraga tridactylidis 12.5, Salvia silvestris 14.5, Stachys recta 14.6, Tragopogon major 26.5, Trifolium alpestre 14.6, T. montanum 14.6, Triticum repens 14.6, Tulipa silvestris 27.4, Trollius europaeus 14.5, Valeriana officinalis 21.5, Verbascum phlomoides 4.7, Veronica Beccabunga 14.6, Viola arenaria 17.4.

Bärn.

Aconitum Lycoctonum 28.6, A. Napellus *20.7, Agrostemma coronaria *18.7, Anthemis Cotula 8.6, Asclepias syriaca *20.7, Asperula odorata 6.6, Avena sativa 24.7, Briza media 1.7, Bromus arvensis 17.7, B. secalinus 21.7, Calendula officinalis *24.7, Campanula Trachelium 18.7, Carex praecox 4.5, Centaurea Jacea 11.7, Cirsium rivulare 13.6, Cuscuta europaea 19.7, Dactylis glomerata 3.7, Epilobium angustifolium 11.7, Galeopsis Ladanum 20.7, Galium Mollugo 1.7, Geum rivale 31.5, Hordeum vulgare 16.7, Lepidium campestre 5.5, Lychnis chalcedonica *12.7, Majanthemum bifolium 17.6, Myosotis arvensis 30.5, Narcissus poeticus *26.5, N. Pseudo-Narcissus *13.4, Onopordon Acanthium 14.7, Pedicularis palustris 25.5, Petasites officinalis 12.4, Plantago major 30.6, Poa pratensis 22.6, Potentilla Tormentilla 28.5, Prenanthes purpurea 21.7, Primula Auricula *15.4, Thlaspi perfoliatum 19.4, Trifolium repens 11.6, Tulipa Gesneriana 3.6, Veratrum album 21.7, Verbascum nigrum 13.7, Veronica arvensis 11.4, Viola silvestris 27.5, Thymus Serpyllum 2.7.

b) Fruchtreife.

Freistadt:

Secale cereale 17.7.

Bärn:

Avena sativa 18.8, Fragaria vesca 21.6, Hordeum vulgare 14.8, Pisum sativum 8.8, Secale cereale aestiv. 14.8, hyb. 1.8, Vicia sativa 8.8.

Die im Vorstehenden mit einem * bezeichneten Arten sind im Garten kultiviert. Das Zeichen V nach dem Datum deutet die Zeit der vollen allgemeinen Blütenentfaltung an.

Zusammenstellung

der ersten Blüthen mehrerer Pflanzen in Bärn von 1861—1874.

Durch die nachstehende Tabelle, welche der Beobachter Herr Johann Gans dem naturforschenden Vereine freundlichst mitgetheilt hat, werden die im XII. Bande II. Heft, Abhandl. Seite 161 unserer Verhandlungen mitgetheilten Daten mehr detaillirt und erweitert.

Die Lage von Bärn ist: Breite $49^{\circ} 48'$, Länge $35^{\circ} 8'$ östl. von Ferro, Seehöhe 402 Meter.

In der Rubrik der Mittel bezeichnet die hinter den Einheiten stehende Ziffer die erste Dezimale und jene hinter — den Monat.

Name der beobachteten Pflanze	Erste beobachtete Blüthen in den Jahren:														Mittleres Datum	Zahl der Beobachtungen
	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874		
<i>Acer campestre</i>	—	14.5	—	—	20.5	—	14.5	15.5	—	—	—	—	—	12.5	15—5	5
„ <i>platanoides</i>	—	3.5	4.5	14.5	5.5	26.4	7.5	4.5	23.4	13.5	20.5	29.4	8.5	7.5	5.4—5	13
<i>Aesculus Hippocastanum</i> .	—	16.5	20.5	5.6	21.5	—	27.5	20.5	26.5	22.5	10.6	9.5	8.6	4.6	26—5	12
<i>Ajuga genevensis</i>	—	7.5	—	—	9.5	7.5	12.5	10.5	10.5	15.5	22.5	3.5	—	20.5	11.5—5	10
„ <i>reptans</i>	—	22.5	—	—	24.5	—	22.5	27.5	—	—	—	—	—	1.6	25.4—5	5
<i>Alnus glutinosa</i>	12.4	27.4	—	—	20.4	7.4	18.4	15.4	6.4	18.4	22.4	31.3	25.3	5.4	11.8—4	12
<i>Anemone nemorosa</i> . . .	3.4	25.3	6.4	—	19.4	10.4	22.4	19.4	11.4	23.4	27.3	4.4	29.3	5.4	8.2—4	13
<i>Avena sativa</i>	—	20.7	13.7	27.7	18.7	18.7	29.7	7.7	17.7	22.7	24.7	14.7	31.7	24.7	20.3—7	13
<i>Berberis vulgaris</i>	—	—	—	—	—	—	—	—	—	—	14.6	18.5	3.6	4.6	2—6	4
<i>Betula alba</i>	—	—	—	14.5	5.5	2.5	7.5	3.5	22.4	10.5	25.5	27.4	6.5	27.4	5—5	11

Name der beobachteten Pflanzen	Erste beobachtete Blüten in den Jahren:														Mittleres Datum	Zahl der Beobachtungen
	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874		
Calluna vulgaris . . .	12.8	26.7	25.7	11.8	23.7	30.7	4.8	20.7	25.7	27.7	15.8	22.7	13.8	8.8	1—8	14
Carum Carvi . . .	3.6	21.5	27.5	8.6	28.5	2.6	1.6	22.5	22.5	1.6	9.6	15.5	2.6	6.6	29.8—5	14
Chrysanthem. Leucanthem.	15.6	1.6	11.6	10.6	29.5	—	—	9.6	7.6	15.6	25.6	30.5	24.6	18.6	10.8—6	12
Colchicum autumnale . .	—	21.8	12.8	1.9	16.8	1.9	22.8	15.8	18.8	13.8	27.8	16.8	24.8	28.8	21.2—8	13
Convallaria majalis . .	5.6	18.5	16.5	4.6	21.5	31.5	31.5	22.5	17.5	25.5	2.6	9.5	5.6	4.6	26.1—5	14
Corylus Avellana . . .	27.3	19.3	22.3	—	14.4	25.3	3.4	5.4	29.3	8.4	22.3	18.3	14.3	28.3	27.5—3	13
Crataegus Oxyacantha .	—	—	25.5	8.6	—	3.6	—	28.5	28.5	4.6	17.6	23.5	—	9.6	2.3—6	9
Cytisus Laburnum . . .	—	—	—	—	—	—	—	—	—	—	—	1.6	5.7	20.6	18.7—6	3
Daphne Mezereum . . .	21.3	19.3	25.3	17.4	15.4	5.4	14.4	8.4	8.4	19.4	1.5	5.4	20.3	4.4	6.4—4	14
Fagus silvatica . . .	—	14.5	19.5	27.5	16.5	9.5	21.5	12.5	8.5	19.5	29.5	8.5	24.5	3.6	18.5—5	13
Fraxinus excelsior . . .	—	—	11.5	—	—	4.5	12.5	5.5	—	—	—	—	—	12.5	8.8—5	5
Hepatica triloba . . .	27.3	25.3	25.3	—	—	4.4	18.4	9.4	2.4	9.4	18.3	—	17.3	30.3	30.8—3	11
Hordeum vulgare aestivum	9.7	15.7	11.7	23.7	10.7	12.7	18.7	—	14.7	20.7	20.7	1.7	17.7	16.7	14.3—7	13
Hypericum perforatum .	—	16.6	30.6	17.7	3.7	29.6	7.7	17.6	26.6	—	18.7	21.6	14.7	14.7	2.7—7	12
Lilium candidum . . .	20.7	—	16.7	1.8	16.7	19.7	28.7	10.7	20.7	23.7	3.8	6.7	25.7	22.7	20.8—7	13
Lonicera nigra . . .	—	1.5	—	—	20.5	12.5	22.5	18.5	16.5	24.5	8.6	6.5	—	2.6	19.1—5	10
„ Xylosteum . . .	3.6	5.5	21.5	—	30.5	—	31.5	—	28.5	—	—	—	—	4.6	26.3—5	7
Philadelphus coronaria .	—	31.5	—	25.6	8.6	17.6	20.6	6.6	5.6	20.6	6.7	7.6	29.6	22.6	16.2—6	12
Pisum sativum . . .	—	30.6	6.7	19.7	12.7	2.7	8.7	—	7.7	10.7	16.7	26.6	16.7	10.7	8.3—7	12
Populus tremula . . .	—	27.3	—	19.4	20.4	8.4	20.4	18.4	9.4	16.4	16.4	30.3	24.3	11.4	10.2—4	12
Primula offic. . . .	1.4	4.4	9.4	22.4	22.4	8.4	23.4	20.4	12.4	22.4	17.4	—	26.3	13.4	13—4	13
Prunus avium . . .	14.5	28.4	7.5	18.5	10.5	29.4	10.5	9.5	5.5	15.5	25.5	29.4	8.5	12.5	9.2—5	14
„ Cerasus . . .	26.5	28.4	12.5	20.5	14.5	4.5	12.5	12.5	7.5	16.5	28.5	5.5	11.5	20.5	13.2—5	14
„ domestica . . .	26.5	28.4	—	26.5	19.5	4.5	13.5	16.5	7.5	18.5	29.5	4.5	15.5	1.6	15.9—5	13
„ Padus . . .	24.5	2.5	15.5	30.5	15.5	10.5	14.5	12.5	11.5	19.5	29.5	5.5	15.5	27.5	16.3—5	14
„ spinosa . . .	—	27.4	11.5	20.5	12.5	5.5	—	15.5	7.5	18.5	28.5	4.5	—	23.5	12.7—5	11
Pyrus communis . . .	—	—	12.5	26.5	15.5	9.5	14.5	11.5	7.5	19.5	—	6.5	23.5	30.5	15.6—5	11

Name der beobachteten Pflanze	Erste beobachtete Blüthen in den Jahren:														Mittleres Datum	Zahl der Beobachtungen
	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874		
<i>Pyrus Malus</i>	29.5	7.5	15.5	31.5	15.5	13.5	14.5	14.5	11.5	—	—	6.5	16.5	25.5	16.3—5	12
<i>Ranunculus Ficaria</i> . . .	31.3	—	4.4	23.4	24.4	7.4	23.4	18.4	16.4	25.4	—	7.4	31.3	12.4	13.1—4	12
<i>Ribes Grossularia</i> . . .	—	10.4	29.3	10.5	3.5	13.4	1.5	1.5	18.4	10.5	10.5	16.4	14.4	23.4	24.3—4	13
<i>rubrum</i>	—	—	9.4	11.5	5.5	19.4	2.5	3.5	18.4	11.5	12.5	21.4	19.4	26.4	28.0—4	12
<i>Robinia Pseud-Acacia</i> . .	—	8.6	10.6	8.7	13.6	—	10.7	12.6	24.6	17.6	2.7	6.6	7.7	26.6	25.3—6	12
<i>Rosa canina</i>	22.6	9.6	10.6	24.6	7.6	15.6	24.6	3.6	10.6	15.6	5.7	8.6	4.7	23.6	17.1—6	14
<i>centifolia</i>	30.6	—	16.6	30.6	26.6	25.6	5.7	20.6	2.7	9.7	13.7	22.6	—	6.7	27.8—6	12
<i>Rubus Idaeus</i>	—	3.6	8.6	26.6	30.5	8.6	9.6	1.6	2.6	13.6	30.6	31.5	27.6	21.6	11.2—6	13
<i>Salix caprea</i>	—	27.3	11.4	21.4	21.4	—	—	—	—	17.4	—	5.4	1.4	16.4	10.9—4	8
<i>Sambucus nigra</i>	22.6	29.5	7.6	1.7	11.6	13.6	18.6	5.6	7.6	19.6	3.7	2.6	25.6	20.6	15.0—6	14
<i>Secale cereale aestivum</i> .	—	—	21.6	9.7	1.7	26.6	5.7	14.6	27.6	29.6	7.7	16.6	8.7	6.7	29.1—6	12
<i>hibernum</i>	18.6	—	3.6	15.6	2.6	7.6	10.6	2.6	30.5	11.6	24.6	24.5	18.6	15.6	9.0—6	13
<i>Solanum tuberosum</i> . . .	9.7	22.6	8.7	20.7	7.7	4.7	8.7	28.6	7.7	12.7	18.7	24.6	15.7	15.7	7.4—7	14
<i>Sorbus Aucuparia</i>	8.6	16.5	22.5	7.6	24.5	2.6	29.5	21.5	19.5	2.6	16.6	14.5	8.6	5.6	29.3—5	14
<i>Symphytum offic.</i>	—	1.6	26.5	19.6	—	9.6	31.5	24.5	23.5	27.5	11.6	15.5	6.6	4.6	31.8—5	12
<i>Syringa vulgaris</i>	31.5	11.5	21.5	6.6	22.5	30.5	27.5	20.5	18.5	23.5	10.6	11.5	6.6	4.6	26.0—5	14
<i>Taraxacum offic.</i>	—	17.5	27.4	10.5	8.5	1.5	9.5	4.5	26.4	12.5	10.5	25.4	11.4	4.5	3.1—5	13
<i>Tilia grandifolia</i>	—	26.6	8.7	—	26.6	1.7	9.7	25.6	17.7	11.7	21.7	24.6	—	12.7	5.1—7	11
<i>parvifolia</i>	—	—	—	—	16.7	22.7	28.7	5.7	22.7	—	5.8	14.7	27.7	22.7	21.3—7	9
<i>Trifolium pratense</i>	13.6	22.5	12.6	29.5	5.6	5.6	1.6	22.5	26.5	—	9.6	13.5	11.6	4.6	1.0—6	13
<i>repens</i>	—	—	9.6	23.5	5.6	4.6	1.6	23.5	28.5	28.5	—	8.5	—	11.6	29.5—5	10
<i>Triticum vulgare aestivum</i>	—	20.7	—	25.7	12.7	3.7	—	12.7	16.7	28.7	3.8	10.7	27.7	—	18.7—7	10
<i>Ulmus campestris</i>	—	28.3	5.4	—	26.4	25.4	25.4	22.4	16.4	27.4	22.4	12.4	12.4	22.4	17.5—4	12
<i>Vaccinium Myrtillus</i> . . .	27.5	26.4	10.5	28.5	10.5	5.5	11.5	8.5	29.4	17.5	20.5	30.4	11.5	20.5	11.4—5	14
<i>Vitis idaea</i>	5.6	18.5	21.5	3.6	22.5	27.5	22.5	19.5	20.5	26.5	8.6	13.5	30.5	6.6	26.0—5	14
<i>Viburnum Opulus</i>	—	27.5	—	—	2.6	—	—	—	1.6	10.6	24.6	26.5	23.6	19.6	8.5—6	8
<i>Viola odorata</i>	6.4	30.3	17.4	26.4	22.4	12.4	25.4	20.4	15.4	23.4	9.4	19.4	30.3	14.4	14.6—4	14

II. Thierreich.

	Erste Erscheinung		Erste Erscheinung
Bärn.		Freistadt.	
Aves.		Aves.	
<i>Alauda arvensis</i>	27.2	<i>Alauda arvensis</i>	1.3
<i>Crex pratensis</i>	11.6	<i>Coturnix dactylisonans</i>	22.5
<i>Cuculus canorus</i>	7.5	<i>Crex pratensis</i>	6.6
<i>Fringilla coelebs</i>	30.3	<i>Cuculus canorus</i>	25.4
<i>Hirundo rustica</i>	23.4	<i>Cypselus apus</i>	20.5
<i>Motacilla alba</i>	3.4	<i>Fringilla serinus</i>	11.4
" <i>cinerea</i>	26.5	<i>Hirundo rustica</i>	12.4
<i>Perdix coturnix</i>	31.5	<i>Jynx torquilla</i>	24.4
<i>Ruticilla Phoenicurus</i>	4.4	<i>Lanius minor</i>	14.5
<i>Turdus musicus</i>	19.4	<i>Lusciola Phoenicurus</i>	2.4
		" <i>rubecula</i>	11.4
Reptilia.		<i>Motacilla alba</i>	1.3
<i>Anguis fragilis</i>	20.5	<i>Sturnus vulgaris</i>	1.3
<i>Lacerta agilis</i>	6.4	<i>Sylvia hortensis</i>	7.5
		Insecta.	
Insecta.		<i>Acridium stridulum</i>	15.7
<i>Anisoplia fruticola</i>	17.6	<i>Acronycta cuspis</i>	15.7
<i>Aphodius fimetarius</i>	24.4	<i>Anthocharis Cardam.</i>	26.4
<i>Aponia Crataegi</i>	19.6	<i>Apis mellifica</i>	28.3
<i>Arge Galathea</i>	12.7	<i>Aphodius fimetarius</i>	30.5
<i>Argynnis Aglaja</i>	11.7	<i>Arge Galathea</i>	11.7
<i>Bombus terrestris</i>	22.4	<i>Argynnis Adippe</i>	4.7
<i>Carabus cancellatus</i>	22.4	<i>Asilus crabroniform.</i>	8.8
<i>Cicindela campestris</i>	24.4	<i>Callimorpha Dominula</i>	11.7
<i>Coccinella 7 punctata</i>	27.4	<i>Calopteryx splendida</i>	6.6
<i>Coenonympha Pamphylus</i>	1.7	<i>Cetonia aurata</i>	7.6
<i>Libellula Virgo</i>	4.7	<i>Chalcophora Mariana</i>	17.6
<i>Melolontha vulgaris</i>	27.5	<i>Chelonia Caja</i>	15.7
<i>Necrophorus Vespilo</i>	28.4	<i>Chironomus plum</i>	4.4
<i>Papilio Machaon</i>	8.8	<i>Cicindela campestris</i>	5.4
<i>Pieris Brassicae</i>	25.5	<i>Colias Edusa</i>	4.8
<i>Plusia Gamma</i>	27.6	" <i>Rhamni (♂)</i>	3.4
<i>Pterostichus vulgaris</i>	14.4	<i>Corymbites pectinicorn.</i>	30.5
<i>Scatophaga stercoraria</i>	12.4	<i>Cossus ligniperda</i>	20.6
<i>Vanessa Antiopa</i>	29.7	<i>Donacia holosericea</i>	1.6
" <i>Jo</i>	23.7	<i>Epinephele Janira</i>	6.6
" <i>polychloros</i>	16.4	<i>Erebia Ligea</i>	11.7
" <i>Urticae</i>	11.4	<i>Erinnys Tages</i>	30.5
<i>Vespa vulgaris</i>	19.5	<i>Euclidia Mi</i>	7.6
<i>Zygaena Filipendula</i>	8.7	<i>Fidonia atomaria</i>	7.6
		<i>Geotrupes stercorarius</i>	3.4
Arachnida.		<i>Harpactor annulatus</i>	18.7
<i>Phalangium Opilio</i>	28.7	<i>Harpyia Vinula</i>	27.4
<i>Tetragnatha extensa</i>	28.3	<i>Idaea (Scoria) dealbata</i>	19.6

	Erste Erscheinung		Erste Erscheinung
Lamia textor	18.6	Sesia apiformis (in copula)	12.7
Limenitis Populi	27.6*)	Smerinthus Populi	23.6
Lygaeus apterus (in copula)	20.4	„ Tiliae (in copula)	7.6
Macroglossa stellatarum	27.6	Solenoptera meticulosa	23.6
Molorchus minor	22.4	Steropes Paniscus	7.6
Odezia chaerophyllata	27.6	Telephorus fuscus	12.4
Papilio Machaon	26.4	Thecla Rubi	25.4
Phasiane clathrata	22.5	Timandra amataria	11.7
Pieris rapae	14.5	Toxotus 4 maculatus	1.6
Platycerus caraboides	30.5	Vanessa Antiopa	3.4
Polyommatus Chryseis	27.6	„ Calbum	4.4
Porthesia auriflua	17.7	„ Jo	3.4
Psyche graminella (♂)	28.6	„ Polychloros	28.3
Rhizotrogus solstit.	4.7	„ Prorsa	4.8
Saperda populnea	17.6	„ Urticae	28.3
„ scalaris	18.6	Zerene marginata	13.7
Satyrus Maera	6.6	Zygaena Achilleae	15.7
„ Proserpina	18.7	„ Minos	3.7

Alauda arvensis war noch am 9.10 hier; Cypselus apus war schon vor Ende Juli weg; von Hirundo rustica sah ich hier die letzte am 23.9 (Einige wollen noch im Dezember welche gesehen haben); von Sturnus vulgaris flügge Junge 25.5; Ende Juli schien keiner mehr hier zu sein, gegen die Mitte Septembers zeigten sich wieder einige, doch nur ganz kurze Zeit.

Von Antiocharis Cardamines sah ich am 27.6 wieder Exemplare, sowie von Vanessa Calbum wieder (1 Stück) am 15.7, von

„ Jo	„	„	15.7,
„ Polychloros	„	„	15.7,
„ urticae	„	„	28.6,
Papilio Machaon	„	„	4.8.

Znaim.	Erste Erscheinung		Erste Erscheinung
Aves.			
Alauda cristata	5.4	Carabus intricatus	12.4
Caprimulgus europaeus	15.5	Cetonia hirtella	10.4
Cuculus canorus	19.4	Colias Rhamni	29.3
Fringilla coelebs	25.4	Dorcadion rutipes	7.4
„ spinus	1.4	Hipparchia Galathea	16.4
Hirundo urbica	18.4	Hister 4 maculata	14.4
Oriolus galbula	25.5	Lucanus cervus	7.4
Upupa epops	16.5	Lytta vesicatoria	4.6
Reptilia.			
Lacerta agilis	11.4	Meloë proscarabaeus	11.4
Salamandra maculata	14.4	Melolontha vulgaris	8.4
Insecta.			
Argynnis Latonia	16.4	Necrophorus Vespilo	16.4
Bombus terrestris	22.4	Oryctes nasicornis	12.4
		Rhizotrogus solstitialis	7.4
		Staphylinus caesareus	16.4
		Vanessa polychloros	29.3

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