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1 Introduction

1.1 Seasonal allergic rhinitis (pollen allergy)

Seasonal allergic rhinitis, sometimes referred to as seasonal allergic rhinoconjunctivitis, is an allergic disease caused by the inhalation of pollen grains.

Several other terms are used, too, depending on the organ most affected such as allergic asthma or just allergic rhinitis. Commonly it is known as hay fever or pollinosis meaning that especially grass pollen is the main participating allergen.

A gross distinction can be made between three main pollen seasons: pollen from trees like birch or hazel in spring, grass pollen in high spring/summer, and a summer/autumn season dominated by the pollination of herbaceous plants like *Ambrosia* or *Parietaria* [CHAPPARD et al. 2004, D'AMATO et al. 1991].

1.1.1 Epidemiology

Throughout the European continent, pollen allergy has a significant clinical impact considering a supposed prevalence of pollinosis up to 40% [EDER et al. 2006]. There is evidence that the prevalence of respiratory allergies induced by pollen has been increasing in the last decades [D'AMATO et al. 1998, D'AMATO et al. 2001, ECRHS 1996, ISAAC 1998]. In Europe, grass pollen is by far the most important cause of pollen allergy [EMBERLIN et al. 1993].

In a survey among the Viennese population in 1999/2000, 27.6% of men and 32.2% of women claimed that they had been affected by an allergy at some time while 19.6% of men and 22.4% of the women claimed that they had suffered an allergy in the year before questioning [DORNER et al. 2006, Stadt Wien 2001]. In tests for sensitisation to inhaled allergens conducted with a prick test, 50.8% of the Viennese probands showed an allergic reaction against at least one of the allergens tested and even 39.3% of persons without any symptoms showed

allergic sensitisation. The most frequently observed inhaled allergens were grass pollen, followed by house dust mites and cats [SCHÜTZ-KISS et al. 1995]. Records from military health examinations from 1986 to 2005 amongst 18 year old recruits show that the prevalence of hay fever doubled, the prevalence of bronchial asthma rose 3.6-fold and for atopic eczema an almost 5-fold increase was observed within the survey period. Those data substantiate the trend of an internationally recorded increase in allergies [DORNER et al. 2006].

1.1.2 Pollen allergens

Pollen allergens are water soluble proteins or glycoproteins with a molecular weight between 5 and 80 kDa [GROTE et al. 2005, KNOX and SUPHIOGLU 1996]. The majority of pollen allergen families consists of expansins, profilins and calcium-binding proteins. Pollen allergens appear in only 29 protein families of a total of 2.615 protein families that have been found in seed plants [RADAUER and BREITENEDER 2006]. Lots of these proteins bear similarities of their IgE epitopes which lead to allergenic cross reactions without any contact to the source [WOPFNER et al. 2005]. Allergenic cross reactivity can occur between different pollen species, but also between pollen and plant-derived food [WEBER 2003]. Normally, there are multiple allergens in one single type of pollen. For example, in Poaceae pollen 11 allergenic proteins were found [ANDERSSON and LIDHOLM 2003, PETERSEN et al. 2006]. Nevertheless, the immune system is not able to recognize the whole structure of proteins or glycoproteins but recognizes smaller sections of those macromolecules, called determinants or epitopes [BEHRENDT and BECKER 2001].

Pollen allergens are integral components of pollen grains and have to be released to become bioavailable and consequently, to elicit allergic symptoms [RANTIO-LEHTIMÄKI 1995]. The liberation of allergens from pollen grains is dependent on meteorological factors like high relative air humidity, heavy rain as well as thunderstorms and air pollutants. Humid conditions lead to the liberation of allergens under the physiological condition of pollination [BEHRENDT et al. 1997].

1.1.3 Pathophysiology of seasonal allergic rhinitis

An allergy is defined as an inadequate immune reaction to a usually harmless substance. Pollen allergies belong to allergic type 1 reactions [AKTORIES and FORTH 2009]. Provided that the contact of an allergen with a person is necessary to provoke allergic reactions, in the case of pollen allergies, the contact happens by inhaling whole allergenic pollen grains or the allergen itself via the air or by ingesting it via the gastrointestinal tract but also through a direct contact on the skin surface or percutaneously via injections [BEHRENDT and BECKER 2001].

Allergic reactions can be divided into two consecutive phases – the sensitisation and the allergic reaction.

Sensitisation

The sensitisation describes the first contact with the allergen which causes no clinical symptoms. Thereby, the allergens are ingested by dendritic cells, processed and presented on their surface to T lymphocytes which then induce B cells to secrete IgE antibodies. With their Fc region those antibodies bind to the highly affine Fc ϵ receptors of basophil granulocytes in the blood or in mast cells in the tissue [AKTORIES and FORTH 2009, BEHRENDT and BECKER 2001].

Allergic reaction

A new exposure to the allergen triggers the release of mediators from mast cells and basophil leucocytes. Mediators such as heparin, histamine or some enzymes are stored in those cells – others, however, like prostaglandins, leukotrienes or platelet-activating factors will be synthesized newly. These mediators evoke allergic reactions by increasing vascular permeability and spastic contractions of smooth muscles, for example bronchia. Typical allergic symptoms therefore include wheals, eczema of the skin, rhinoconjunctivitis, sneezing or airway bronchoconstriction. Some mediators chemotactically attract more cells of the immune system and activate those causing local inflammatory reactions [AKTORIES and FORTH 2009, BEHRENDT and BECKER 2001].

1.1.4 Pharmacological and non-pharmacological management

Non-pharmacological management

The most effective and causal therapy is to avoid or minimize the contact with the allergen. In Austria, the Austrian Pollen Information System (Pollenwarndienst) offers pollen distribution maps in order to avoid areas and periods with high pollen loads and to plan travel activities and vacations. Tips given by the Austrian Pollen Information System are to stay indoors at precarious times, to limit physical outdoor activity during the pollen season because more pollen would be inhaled or to locate deciduous forests since the airborne pollen load is considerably reduced inside them. Moreover, during the pollen season, the consumption of alcohol should be restricted because it leads to vascular dilatation and makes the mucosa permeable to a greater extent leading to more intense allergic reactions. Furthermore, sunglasses and a hat are a possible way to protect the eyes against pollen contact and though irritation of allergy sensitised eyes. Other useful tips that have proven effective are filter sheets for the window, pollen filters for cars or even filter masks [AUSTRIAN POLLEN INFORMATION SYSTEM, 2013-12-13].

Pharmacological management

Despite those hints, total avoidance of contact with allergenic pollen is not always possible which makes pharmacological treatment necessary to suppress acute symptoms. Available pharmaceutical products are either prophylactic or therapeutic and include mast cell stabilisers, antihistamines, glucocorticoids and cysteinyl leukotriene receptor antagonists as well as anti IgE antibodies and interleukin-4 antagonists [AKTORIES and FORTH 2009].

Mast cell stabilisers

Among prophylactic antiallergics, mast cell stabilisers as Cromoglicic acid and Nedocromil are the most important. They are used for prophylactic as well as long term therapy. Mast cell stabilisers prevent the degranulation of mast cells

and therefor the unwanted effects of inflammatory mediators illustrated above (see chapter Pathophysiology) [AKTORIES and FORTH 2009]. Because they act before the mast cell degranulates, they have no effect on inflammatory mediators that have already been liberated [CHIGBU 2009]. Due to this fact, they need about one to two weeks to unfold their full effectiveness and are therefor not suitable for the acute alleviation of symptoms. Concerning this, they should be applied in sufficient time before the symptoms are expected. Mast cell stabilisers are used locally in the form of eye drops, nasal sprays or as aerosol [AKTORIES and FORTH 2009].

Antihistamines

The vast majority of symptomatically used antiallergics are antihistamines that are competitive antagonists of histamine H1 receptors. They prevent typical hypersensitivity reactions like itching and oedema caused by histamine-dependent capillary dilation and increased vascular permeability. Elder first generation H1 antihistamines like Dimetinden or Clemastin cause systemic side effects concerning the central nervous system like sedation and anticholinergic effects. The success of topically applied antihistamines such as Chlorphenoxamine is based on local anaesthetic effects. Newer drugs are second generation H1 antihistamines including Terfenadin and Loratadin or third generation H1 antihistamines such as Fexofenadin and Desloratadin. They demonstrate efficacy because they are less permeable to the blood brain barrier and are therefor not sedating at all or just a little bit. Those new representatives show a long-term effect requiring an oral administration once daily [AKTORIES and FORTH 2009].

Glucocorticoids

In high concentrations, Glucocorticoids reduce the release of mediators and inhibit the synthesis of mediators such as proinflammatory cytokines [AKTORIES and FORTH 2009]. However, they should only be used for a short term until allergic symptoms are under control [CHIGBU 2009].

Cysteinyl leukotriene receptor antagonists

Another available agent is Montelukast, the first representative of cysteinyl leukotriene receptor antagonists. Cysteinyl leukotrienes C₄ and D₄ are, besides histamine, involved in allergic reactions. Leukotriene B₄ is a chemotactic factor for leukocytes promoting inflammation [AKTORIES and FORTH 2009].

Anti Ig E antibodies and interleukin-4 antagonists

For severe cases of allergic asthma, an antibody against IgE, Omalizumab, is available. Further, antagonists of interleukin-4 are currently tested in clinical studies [AKTORIES and FORTH 2009].

Immunotherapy

In severe cases, a very effective possibility is immunotherapy or hypersensitisation where at the beginning small dosages of the specific allergen far below the threshold are applied, then doses will be increased continually until nearly no allergic reactions are provoked by normal allergen concentrations [AKTORIES and FORTH 2009, AUSTRIAN POLLEN INFORMATION SYSTEM, 2013-12-13]. However, it takes three to five years to reach the optimum when the body is accustomed to the presence of this allergen. At the beginning of the treatment, increasing doses are injected every week for about ten weeks, following monthly injections. During the pollen season, doses will be either reduced or entirely stopped. Immunotherapy always has to be supported by antiallergics as well as avoidance of pollen contact. Equally possible is the sublingual or nasal application of allergen extracts that show comparable results, but have to be applied more often. The oral treatment ranges over the same period of three to five years like the parenteral therapy [AUSTRIAN POLLEN INFORMATION SYSTEM, 2013-12-13].

1.2 Airborne pollen counts

Palynology is the science of recent as well as fossil pollen and spores covering several disciplines such as palaeobotanical analysis or forensic palynology. In this study, the analysis of bioaerosol samples by means of counting airborne pollen is at the focus.

1.2.1 Clinical relevance of airborne pollen counts

Pollen counts are an indispensable part of the diagnosis and the therapeutic management of patients susceptible to pollen allergies [SUBIZA 2001]. For allergic persons, pollen counts are important insofar as they can give them information about when they should begin their prophylactic treatment and how they should plan their spare time in consideration of their allergy. To know the airborne pollen concentration can shed light on the variability in symptom severity over time and across geographic regions [D'AMATO et al. 1991]. Furthermore, pollen count monitoring also provides information about the increase and spread of non-native invasive plants such as *Ambrosia* in Europe or an increasing allergenic pollen concentration in the atmosphere in consequence of climate changes [SUBIZA 2001, ZWICK et al. 1991].

1.2.2 Allergenic concentration thresholds

Threshold values specify the minimum amount of pollen from a species that is required to provoke pollinosis symptoms. One must take into account that threshold values mentioned in the literature cannot be taken as absolute values. First, they are dependent on the sensibilisation of the patient and are therefore individually different, moreover there are changes during the season. The so-called *priming-effect* describes the fact that nasal and bronchial threshold values decrease step by step throughout the season due to an increase in the reactivity of the nasal membrane. That means that the minimum concentration of pollen grains needed for triggering symptoms decreases gradually the more often a person is exposed to aeroallergen pollen. As a matter of fact, threshold values

are significantly higher at the beginning of the pollen season than in mid-season or the end [CONNELL 1969, D'AMATO et al. 1991, SUBIZA 2001].

1.3 Pollen

1.3.1 Pollen and pollen development

Pollen grains are the male gametophytes of seed plants, called microgametophytes. They are the origin and the carrier for the male gametes (spermatozoids or sperm cells) [HESSE et al. 2009]. The anthers contain microsporangia, where those microgametophytes develop. At maturity the latter are released where they are dispersed by the wind (wind-pollination or anemophily) or by insects (insect pollination or entomophily), more unusually by mammals, birds or even water. The transfer of pollen from the anthers to the stigma (in general the stigma of another plant of the same species) is called pollination. After the pollen grain has reached a compatible stigma of a pistil, the pollen tube grows and reaches the megasporangium containing the megagametophyte (female gametophyte) resulting in the fertilisation [PURVES et al. 2006].

1.3.2 Environmental factors of flowering

The development of plants and consequently the amount of pollen emitted into the atmosphere, but also the mechanisms following emission of pollen, like transport, dispersion and deposition of pollen is mainly influenced by meteorological factors [EMBERLIN 1994, GALÁN et al. 1998, SÁNCHEZ MESA et al. 2005].

Flower induction happens when endogenous as well as exogenous factors cause the meristem (a plant tissue containing undifferentiated cells) to pass over from the vegetative phase into the reproductive phase and subsequently develop flower organs [HESS 1999]. Endogenous factors include the age of the plant that goes along with the production of phytohormones [THEISS and HÜGEL 1996] while

even more important exogenous factors are the photoperiod denoting daylight hours and thermoperiod meaning the accumulated temperature [HESS 1999, TAIZ and ZEIGER 2000]. To sum up, photoperiod and thermoperiod can be seen as the most important influences on flower induction.

1.3.3 Pollen transport

The undirected transport of pollen by the wind is the cause of high airborne pollen concentrations that can lead to pollinosis symptoms. A big amount of pollen with a low sink rate is necessary in order to distribute easily in the atmosphere and subsequently to fertilize pistillate flowers [HESS 1990].

Although most aerobiological and allergological studies focus on the dispersion of pollen within short distances, there is a body of evidence that plenty of pollen types cover a long distance to reach a site [CABEZUDO et al. 1997, CAMPBELL et al. 1999, FRAILE et al. 2006, ROUSSEAU et al. 2003]. The dispersion of anemophilous pollen via long-range-transport is working by turbulences within the boundary layer which is the lowest atmospheric layer, where the grains are dispersed after being transported there by the wind. It is expected that deep convection brings up the particles to the free atmosphere where they are suspended in air masses. Depending on the altitude reached, pollen can be transported over great distances [SOFIEV et al. 2006]. This way of transport is also involved in modifying pollination seasons (for example start and duration) in lots of European areas [ESTRELLA et al. 2006].

1.3.4 Pollen characterisation and terminology

Pollen display a great variety of specific features such as apertures or ornamentation being typical of some species. Usually, number, type and position of apertures are characteristic of a species because they are genetically determined [HESSE et al. 2009]. Those features combined with other attributes like shape, size and polarity of the pollen grains are important to enable the characterisation of pollen in aerobiological samples.

Polarity

To understand the terminology of pollen grains relating to shape and aperture location, the 3-dimensional orientation of a pollen grain, called polarity, is essential.

Looking at a pollen grain in a spatial view, there is a polar axis reaching from the proximal pole to the distal pole. In the centre of the grain, the equatorial plane is located and thus “divides the pollen grain into a proximal and a distal half”. In isopolar grains, the proximal and distal halves are similar or even identical, in heteropolar grains, however, they differ in a greater extent [HESSE et al. 2009].

Shape and size

The pollen shape is called spheroidal when both polar axis and equatorial diameter are more or less equal. When the polar axis is longer than the equatorial diameter pollen grains are described as prolate, in the opposite case they are called oblate. Considering the pollen size, pollen grains can have various sizes ranging from less than 10 µm to more than 100 µm [HESSE et al. 2009].

Apertures

According to HESSE et al. [2009] an aperture is “a region of the pollen wall that differs significantly from the rest of the wall in its morphology and/or anatomy” and usually represents the germination site. When an aperture is absent in pollen grains, they are named inaperturate. In inaperturate angiosperm pollen, pollen tubes develop without a prefixed exit zone. Both angiosperms and gymnosperms own apertures, but in gymnosperm pollen often a *leptoma* is present which is a “thinning of the pollen wall at the distal pole (of a pollen grain)” [HESSE et al. 2009].

A circular aperture that is located at the equator or distributed over the pollen grain is termed a *porus*, but when a single porus is situated at the distal pole it is called an *ulcus*. A *colpus* is an elongated aperture situated at the equatorial

region or spread over the pollen grain, when situated as the only aperture present at the distal pole it is called sulcus. A combination of both porus and colpus is named a *colporus*. The number of apertures in a pollen grain is specified by prefixes, for example the term “3-colporate” means that three colpi are present. Pollen grains with apertures distributed globally over the whole surface are called *pantoporate* [HESSE et al. 2009].

Often apertures are covered by an exine layer, the *aperture membrane* that can be smooth or ornamented. However, apertures can also be covered by a so-called *operculum* that is a thick coherent exine structure [HESSE et al. 2009]. Another aperture peculiarity is an *annulus* that is described by HESSE et al. [2009] as a “ring-like thickening of the pollen wall surrounding a porus or sulcus”.

Pollen wall stratification

The pollen wall in seed plants is called sporoderm and consists of two layers – the outer exine and the inner intine. The major part of the exine is sporopollenin, a biopolymer that is resistant to decay. The intine mainly consists of cellulose and pectin. Within the exine, a distinction can be made between the inner endexine and the outer ectexine that consists of a foot layer, an infratectum and a tectum. Further terms to describe the outer, structured, and the inner, unstructured, exine are sexine and nexine, which is used mainly in optical microscopy. The outer layer of the ectexine, the tectum, is often covered with suprategical elements. As a matter of principle, the stratification of the pollen wall is the same in gymnosperms as in angiosperms apart from a few exceptions concerning the features of the layers [HESSE et al. 2009]. For saccate pollen like pine pollen, a special terminology is used which will be described in the chapter “Results Pinaceae”.

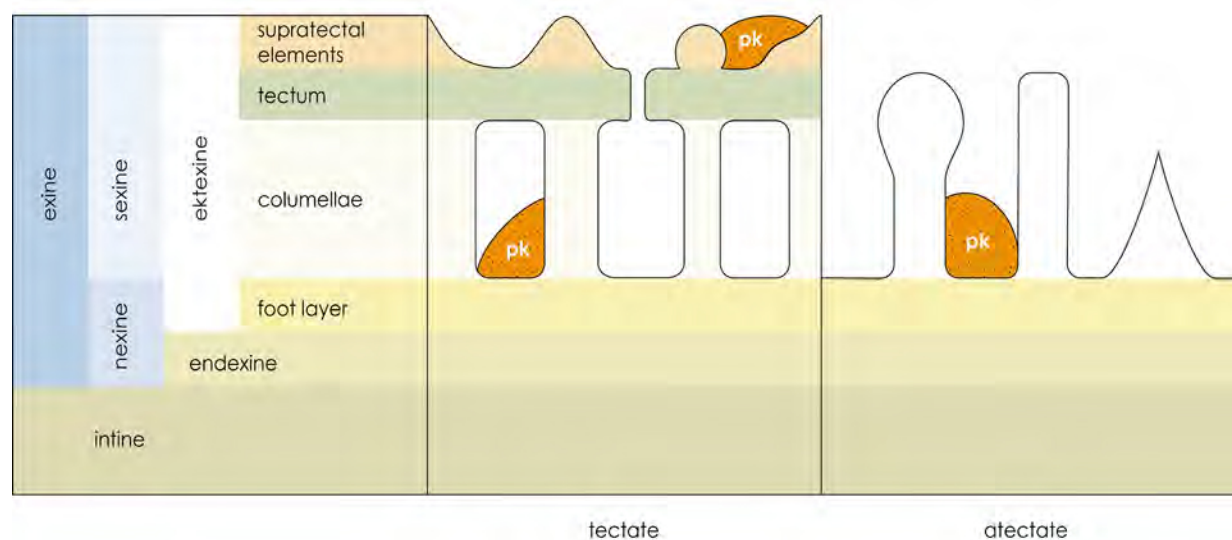


Fig. 1 Pollen wall stratification; pk = pollenkitt; taken from Pollen Terminology [HESSE et al. 2009]

Ornamentation

Ornamenting elements on the pollen surface (ornamentation) are called “sculpture” while the pollen wall construction is characterised as “structure”. A combination of ornamenting features in one and the same pollen grains is quite common. Terms such as *echinus*, *striae*, *verruca* or *reticulum* are ornamenting features used to describe pollen grains [HESSE et al. 2009]. In the following, only terms that are essential for the examination of allergenic pollen in the present investigation will be presented. For a comprehensive survey on pollen types, ornamentation etc. see HESSE et al. [2009].

An *echinate* pollen surface means the presence of “pointed ornamentation elements longer and/or wider than 1 μm ” while they can be called *microechinate* when those elements are smaller than 1 μm . *Granulate* pollen grains, however, have different sized and shaped sculptural elements smaller than 1 μm . Wart-like surface elements larger than 1 μm with the width larger than the height are called *verrucae*. The term *psilate* is used for a pollen wall with a smooth surface, however, very often the ornamentation only seems to be smooth under optical microscope but is different when observed in SEM view. *Lophae* are ridges in a network-like pattern built by the outer exine that surround window-like spaces, the so-called *lacunae*. *Rugulate* means that the exine features irregularly arranged elongated elements larger than 1 μm [HESSE et al. 2009].

Ubisch bodies that often can be found in Cupressaceae and Taxaceae pollen are sporopollenin-containing elements produced by the tapetum. The tapetum is a specialised layer of cells lining the loculus which has an important function in several stages of pollen development. It is not only essential for the nourishment of pollen grains but it also produces *pollenkitt*, a “pollen coating consisting of sticky substances, mainly lipids”. The major function of *pollenkitt* is to hold the grains together during transport, but also to provide protection against external influences such as UV radiation, hydrolysis, exocellular enzymes or loss of water [HESSE et al. 2009].

1.4 Aim of the study

The aim of the present study was to get a better understanding of airborne pollen concentrations of certain plant species according to local vegetation and wind direction, insolation, air humidity and temperature.

Therefor, the airborne pollen concentration of chosen allergenic plant taxa in the second halves of the years 2011 and 2012 was determined by means of a pollen trap in Vienna.

In most previous aeropalynological studies it was not questioned where the pollen derives from. Even if a plant species is not blooming in Austria, it does not mean that there is no airborne pollen of this species in Austria. It might be the case that, due to a warmer weather in neighbouring countries such as Hungary, the Czech Republic or Slovakia, the vegetation there is further developed so that this species is flowering there. Pollen from those neighbouring countries can be transported by the wind to Eastern Austria where it causes allergic reactions in susceptible persons. In this regard it must be kept in mind that pollen does not halt at country's frontiers, of course, but can be transported over long distances by the wind.

To broaden the spectrum of information, in the present study, biogeographical and meteorological data were examined as well. Meteorological data, also from

neighbouring countries, shall help to understand mechanisms of pollen flight, particularly long-distance transport of pollen. Consideration should also be given to the question which temperatures in neighbouring countries are required for the occurrence of pollen from specific plants in the Austrian air. In this context, the effect of climate change on varying flowering seasons is also observed, because an earlier starting and therefor prolonged pollen season means higher pollen loads for allergic patients.

In the long run, this airborne pollen investigation shall help to improve the precision of pollen flight predictions and therefor pollen warning services in Austria by including meteorological data as well as informations about vegetation and flowering seasons in neighbouring countries. To provide reliable and statistically significant statements, investigations concerning pollen flight have to be conducted over decades. This work is part of a long-term study at the Faculty Center of Biodiversity at the University of Vienna.

This study is also part of the project “Climate change and vegetation-dependent prediction of allergen disposition of people suffering from hay fever through monitoring of airborne pollen as a function of the overall meteorological situation” (project no. H2047/2010). This project is supported by the “Hochschuljubiläumsstiftung der Stadt Wien”, a foundation of the city of Vienna, and is headed by Dipl.-Biol. Dr. Ralf Buchner from the Department of Structural and Functional Botany in cooperation with the private weather service UBIMET, providing meteorological data.

2 Material and Methods

2.1 Sampling

For this study, airborne pollen sampling was conducted with a volumetric pollen and particle sampler from Lanzoni (VPPS 2010) (Fig. 2). The trap was set up on the flat roof of the Faculty Centre of Biodiversity in Vienna (Rennweg 14, 1030 Vienna), which is a five-storey building (Fig. 3).



Fig. 2 Lanzoni pollen and particle sampler on the roof of the Faculty Centre of Biodiversity

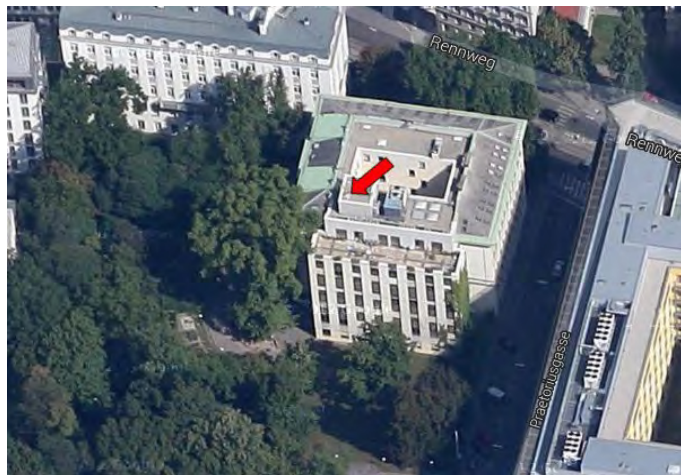


Fig. 3 Exact location of the trap is displayed by the red arrow, mod. acc. to Google Maps [2013-12-18]

Pollen samples for this investigation were collected from July 1 until December 31 in the years 2011 as well as in 2012. The results of the pollen sampling conducted in the first half of the year (January 1st until June 30th) during 2011 and 2012 can be taken from SANDER [2014].

The trap consists of a rotating head including the sampling drum (Fig. 4) that is driven by a clockwork with a speed of 2 mm per hour. With a suction pump the air is drawn at a constant suction rate of 10 litres per minute which is approximately the same volume of air inhaled by a human lung [GALÁN SOLDEVILLA et al. 2007, KOLLAR 1983, LAAIDI et al. 2003]. The absorbed air passes an intake nozzle and

then hits a tape that is wound around the cylindrical drum. The vane at the top of the head ensures the orientation by the wind, whereas an aluminium tripod enables fixing the trap to the floor.

To prepare the drum for a sampling period (7 days), the aluminium drum was cleaned with ethanol (96% vol.) and a clear plastic tape was applied that was fixed with double adhesive tape (Fig. 5). Silicone fluid (2%) was used as an adhesive for the airborne particles and was applied on the tape with a flat brush (Fig. 6). Afterwards, the brush was cleaned with carbon tetrachloride and subsequently dried under an extractor hood. The prepared drum was stored in a metal drum-carrier to protect it against dust and other particles.

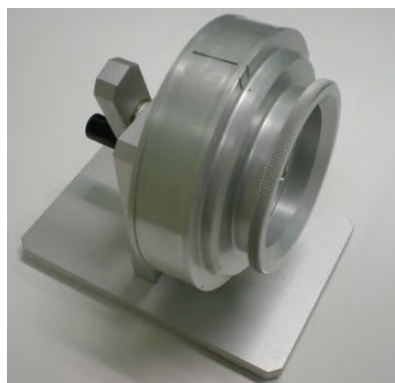


Fig. 4 Aluminium sampling drum on tape winder.



Fig. 5 Fixing the tape on the drum with the aid of tweezers.

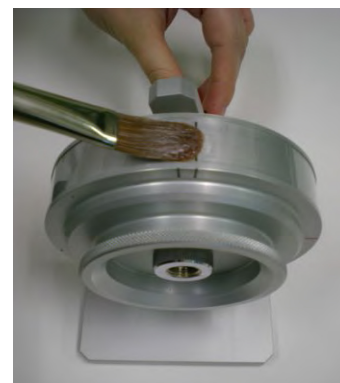


Fig. 6 Coating the tape with silicone fluid by means of a brush.

Once in a week, more precisely, every Wednesday at 12:00 a.m., the collecting drum was exchanged by a new, freshly prepared drum. First of all, the vane had to be locked, then the head containing the drum was unplugged from the metal case (Fig. 7). The winder knob as well as the ring nut were unscrewed in order to remove the drum and replace it with the prepared one (Fig. 8). Then, the clockwork was wound up by screwing the appropriate knob. After tightening the two screws and replacing the head, the vane was unlocked.

Because of technical failures there are no samples available for the periods 28.09.2011 from 12:00 a.m. to 00:00, 29.09.2011 from 00:00 to 12:00 a.m. The period starting with 14.12.2011 12:00 a.m. until 12:00 p.m. and the days from

15.12.2011 until 31.12.2011 were not sampled because of overhauling the pollen sampler.



Fig. 7 Removing the rotating head from the metal casing.



Fig. 8 Unscrewing the winder knob on the sampling drum.

2.2 Meteorological data

Meteorological data were provided by Ubimet. The weather station of Ubimet is situated next to the pollen trap, in a distance of approximately five metres. Due to a technical failure data from the before mentioned weather station are missing from the period October 4, 2012 until December 31, 2012.

Meteorological data include daily rainfall, humidity, temperature, wind intensity and wind direction.

2.3 Study site

As mentioned before, the pollen trap is located on top of the Faculty Centre of Biodiversity in Vienna, Rennweg 14, 1030 Wien (48°11'41.96"N, 16°23'0.77"E) which directly borders the Botanical Garden of the University of Vienna. The Botanical Garden is situated in the South-East of Vienna and contains mowed (twice per year) lawns as well as great amounts of native and foreign trees and shrubs as shown in the plan and the catalogue of holdings in the appendix.

The area around the Botanical Garden is mostly urban, but the Garden is surrounded by lots of green space, too. In the immediate vicinity of the Botanical Garden there is the Belvedere Garden in the North-West and the Swiss Garden in the South. However, there are some other parks and public gardens at close range of the Botanical Garden such as the Arenbergpark, the Modenapark, the Resselpark, the Stadtpark, the St. Marx Cemetery and others.

2.4 Preparation

Before preparation, all objects such as work surface, tweezers, scalpel, cutting block, microscope slides etc. were cleaned with ethanol (96% vol.) and windows as well as the door were closed to prevent contamination with pollen from outside. To prepare the daily samples, first the drum was fixed on a tape winder. With a pair of tweezers the tape was removed from the drum (Fig. 9) and placed on a special cutting block. Due to the fact that the sampling does not start at the very beginning of the tape, the tape had to be situated on the cutting block in that manner that the sampling starting point (indicated by the presence of particles on the plastic tape, shown as a dusty area) is in line with the corresponding scale (time) mark on the block. With an affixing block the tape was secured and then cut into segments of 48 mm with a scalpel (Fig. 10). Since the clockwork moves with a speed of 2 mm per hour, a tape segment of 48 mm represents 24 hours.



Fig. 9 Removing the tape from the drum.



Fig. 10 Cutting the tape into segments with a scalpel on a cutting block.

Since the tapes were exchanged weekly on Wednesday at 12:00 a.m., every Wednesday was divided into two 24 mm long segments, corresponding 12 hours, according to the two subsequent tapes. Though, eight tape segments were received – one for Wednesday 12:00 a.m. to 12:00 p.m., six segments with a length of 48 mm for Thursday until Tuesday and one for Wednesday 00:00 to 12:00 a.m.

Every piece of tape was placed on a cleaned microscope slide with a sticky label for identification. First the tape fixation medium, glycerine gelatine, was dropped onto the slide (Fig. 11), then the segment was positioned, and after cooling down, the preparation was coloured with fuchsine-stained glycerine gelatine before placing the cover glass (Fig. 12) [LANZONI USER'S MANUAL MOD. VPPS 2000].



Fig. 11 Imbedding of the slide preparations with glycerine gelatine.



Fig. 12 Coloration with fuchsine-stained glycerine gelatine.

2.5 Analysis

The daily samples were analysed using an optical microscope (Olympus CX31) at magnifications of 40x – 600x. The detected pollen was counted and registered. Pollen grains were identified, classified into either species or plant family and counted in intervals of six hours. That means that every day was separated into four intervals: 00:00 to 06:00 a.m., 06:00 a.m. to 12:00 a.m., 12:00 a.m. to 06:00 p.m. and 06:00 p.m. to 00:00. The amount of counted pollen grains per six hours was registered in prearranged lists as can be seen in Fig. 13.

Date:

	00:00-06:00	06:00-12:00	12:00-18:00	18:00-00:00
Spores				
Alnus spp.				
Ambrosia artemisiifol.				
Artemisia spp.				
Asteraceae: Asteroideae				
Asteraceae: Cichorioideae				
Betula spp.				
Carpinus betulus				
Castanea sativa				
Chenopodiaceae				
Corylus spp.				
Cupressaceae / Taxaceae				
Fagus sylvatica				
Fraxinus excelsior				
Juglans regia				
Larix spp.				
Pinaceae				
Plantago spp.				
Platanus spp.				
Poaceae				
Quercus spp.				
Ulmus spp.				
Urticaceae				
Unidentified				

Fig. 13 Example of a list used for registering the counted pollen grains.

To facilitate counting, an acetate sheet was used which was divided into intervals of six hours (12 mm) by black lines. This sheet was placed under the microscope slide with a sticky tape and could then be removed for use on the next slide. Slides were examined in vertical lines.

Pollen grains that could not be identified were also counted and listed under the category “Unidentified”. Sometimes it occurred that pollen grains, mostly big grains such as Pinaceae pollen grains, were located outside the sampling tape but covered with glycerine jelly and the cover glass. Those pollen grains were assigned to the six hours-interval that was close to the particle.

To be able to identify pollen grains as precise as possible, literature was used as well as the online Palynological Database (<http://www.palдат.org/>).

The date of occurrence of the pollen grains in the samples was compared to the blooming period of the corresponding plants [FISCHER et al. 2005] in order to confirm the identification of the family or species.

Moreover, the occurrence of airborne spores was registered. Spores were not counted, but estimated according to four categories: “0” for “no contamination with spores”, “+” for “low contamination”, “++” for “moderate contamination” and “+++” for a “high contamination”. Spore counts were recorded for every six-hour interval per day analogue to pollen counts.

2.6 Statistical analysis

After examination under optical microscope and manual listing of the counted pollen grains, the numbers of counted grains per species or family were entered in Excel sheets.

Graphics were created to demonstrate the climate data temperature and humidity. In bar diagrams the pollen counts of each species or family were illustrated. In addition, for *Castanea sativa* two backward trajectories were prepared as well as a distribution map.

3 Results

3.1 Climate data

In the following, the results of the climate data can be seen. The meteorological parameters temperature and air humidity from July to December in the years 2011 and 2012 were plotted against each other. Every graph represents one month containing different coloured humidity curves (above) and temperature curves (below).

Color coding for temperature and humidity as follows:

 Interval 1 (00:00 - 06:00 a.m.)

 Interval 2 (06:00 a.m. - 12:00 a.m.)

 Interval 3 (12:00 a.m. - 06:00 p.m.)

 Interval 4 (16:00 p.m. - 00:00)

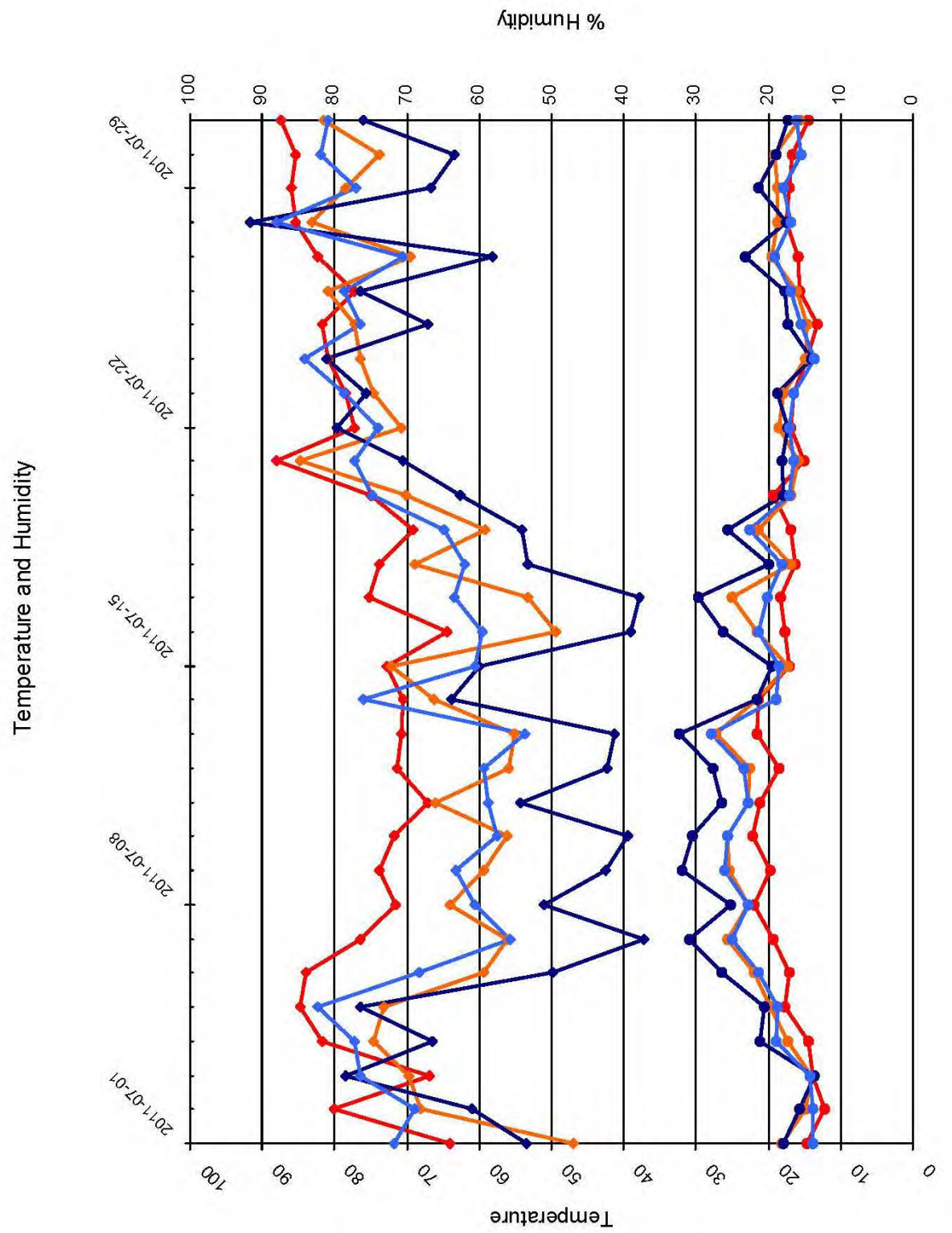


Fig. 14 Temperature and humidity in July 2011

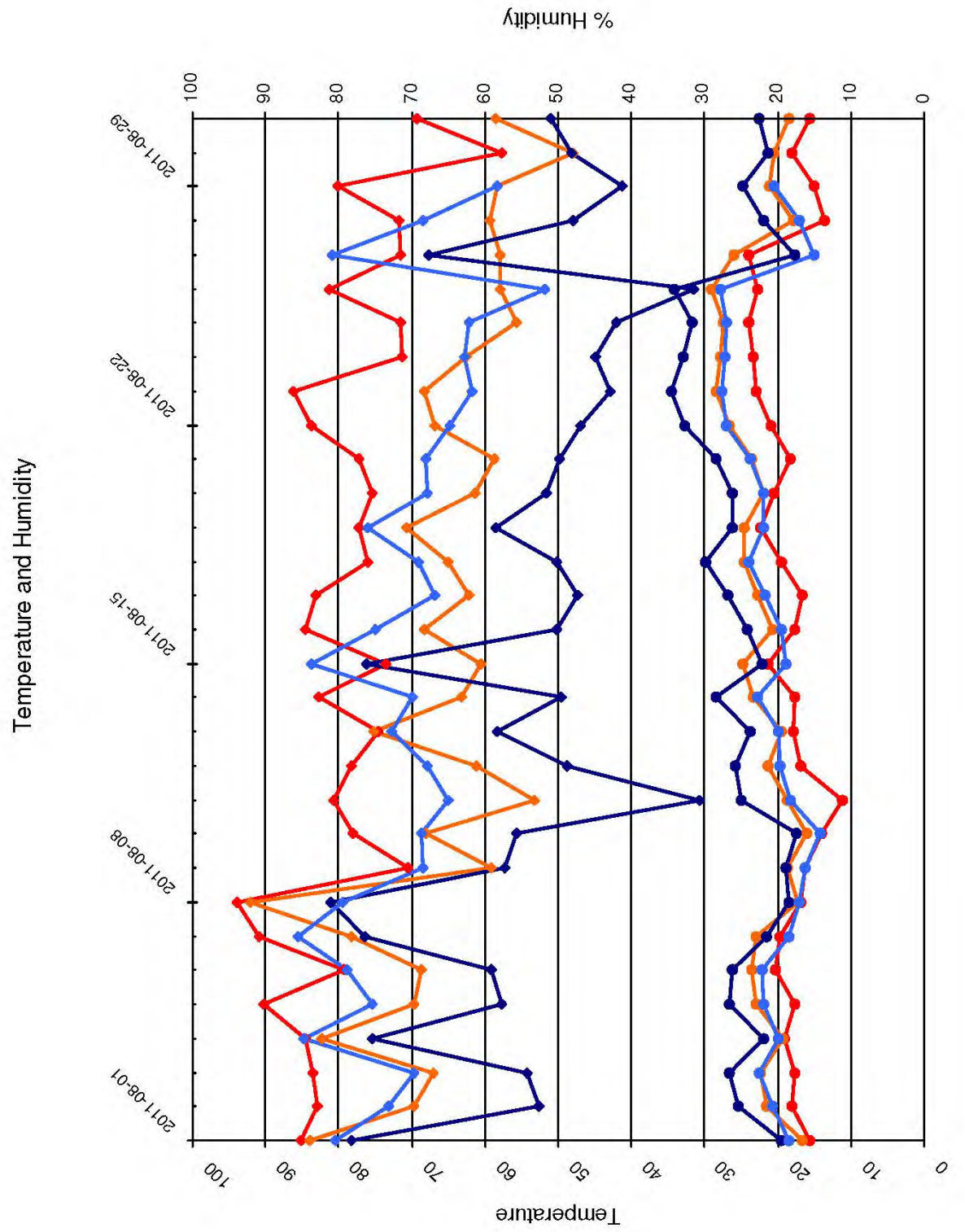


Fig. 15 Temperature and humidity in August 2011

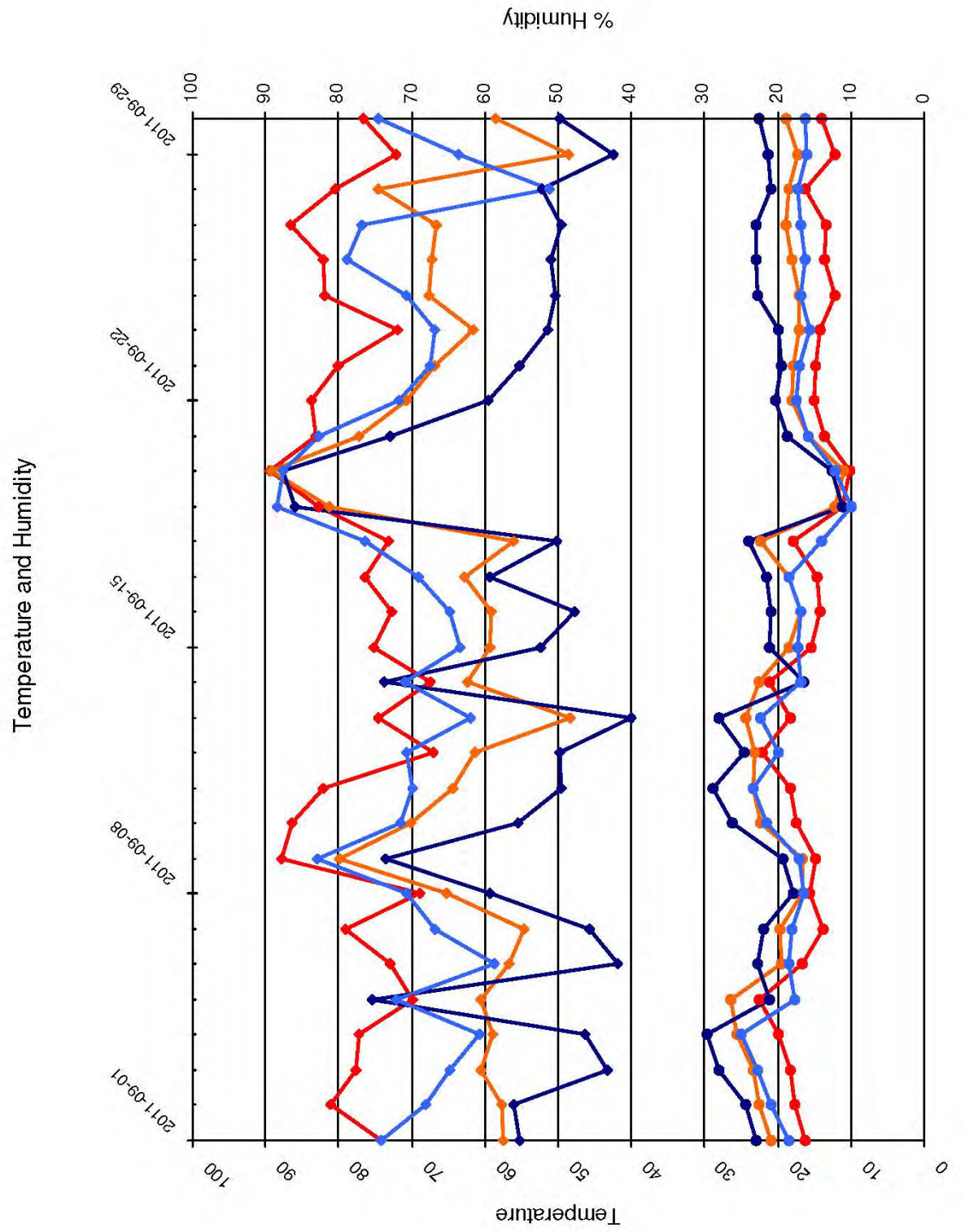


Fig. 16 Temperature and humidity in September 2011

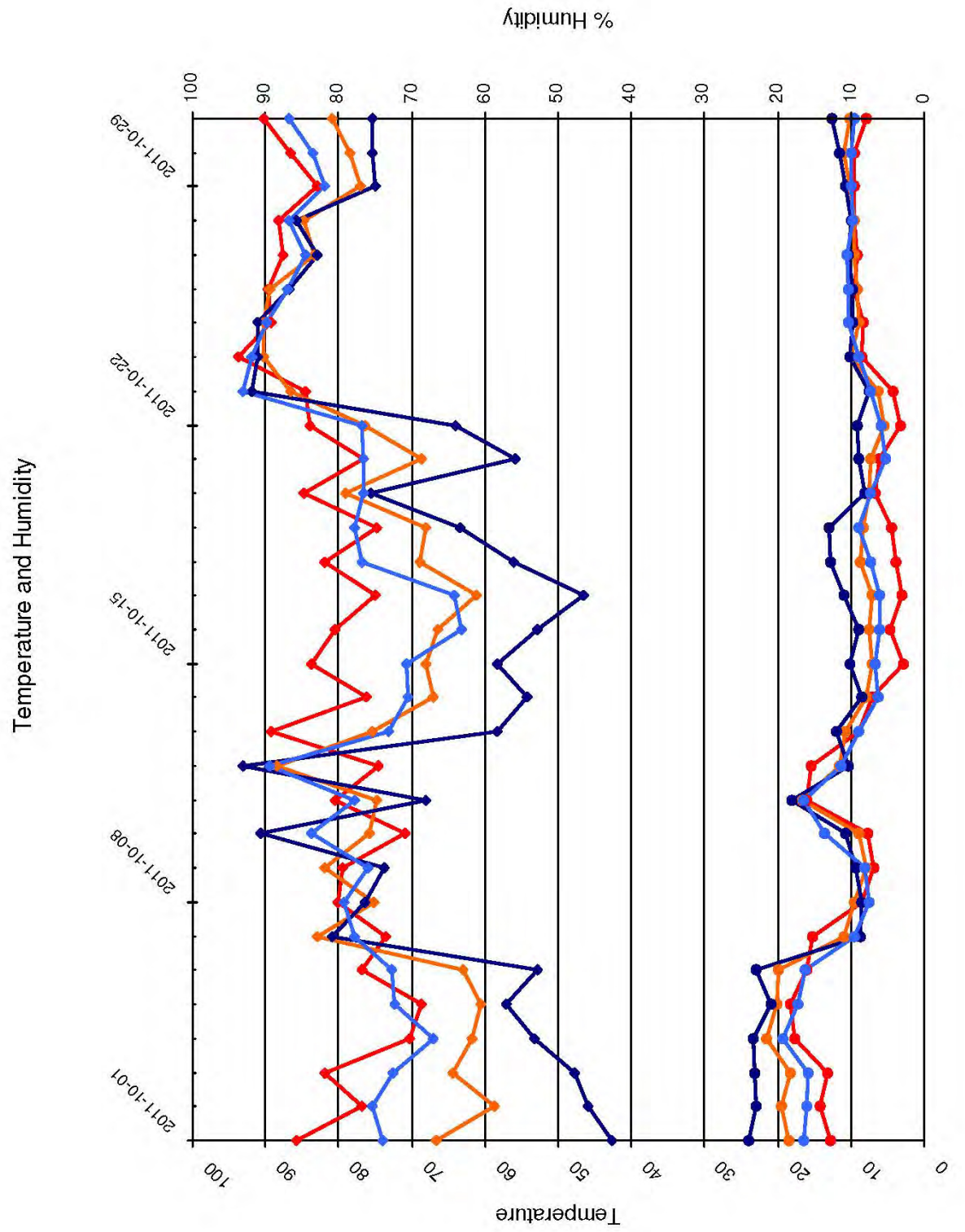


Fig. 17 Temperature and humidity in October 2011

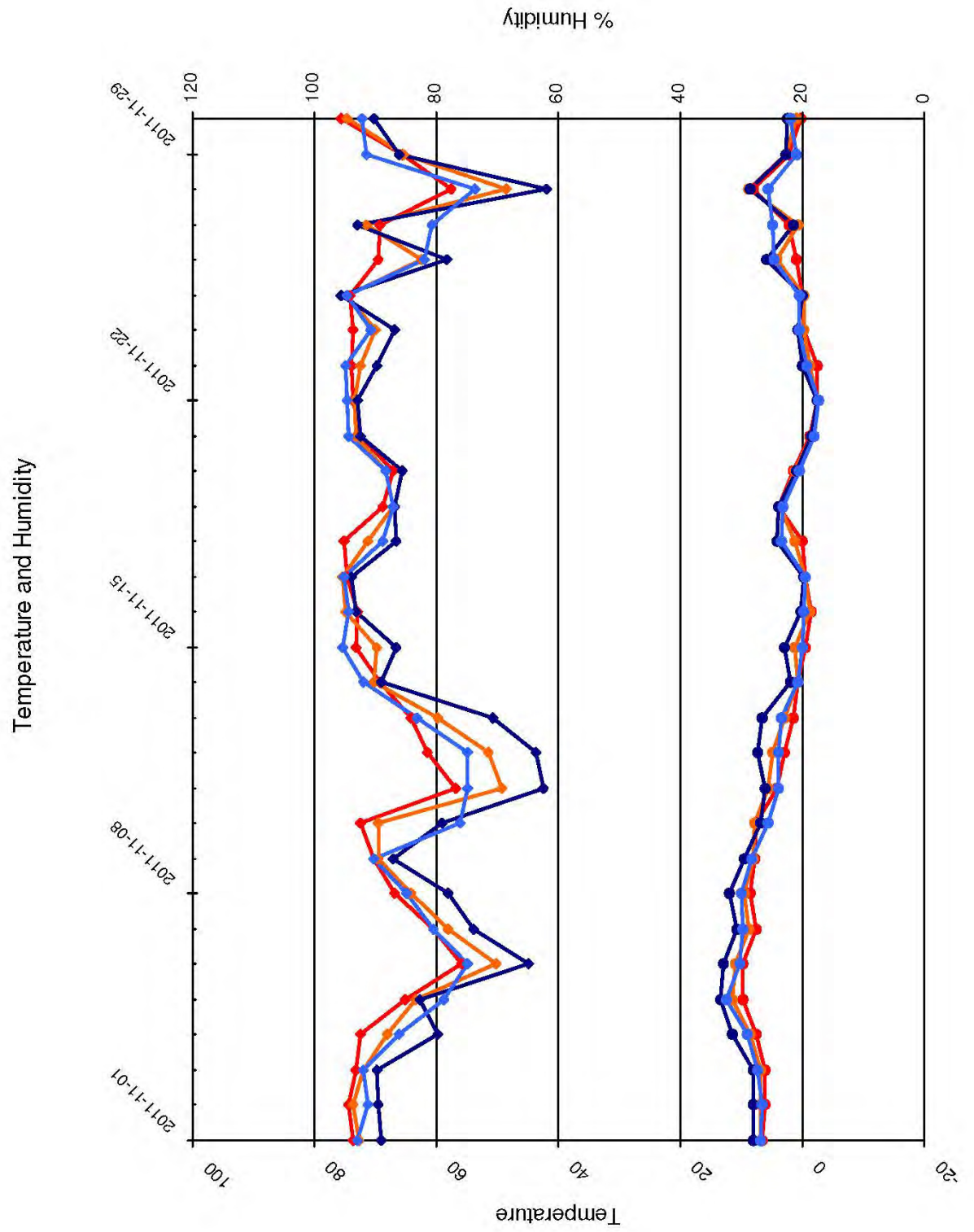


Fig. 18 Temperature and humidity in November 2011

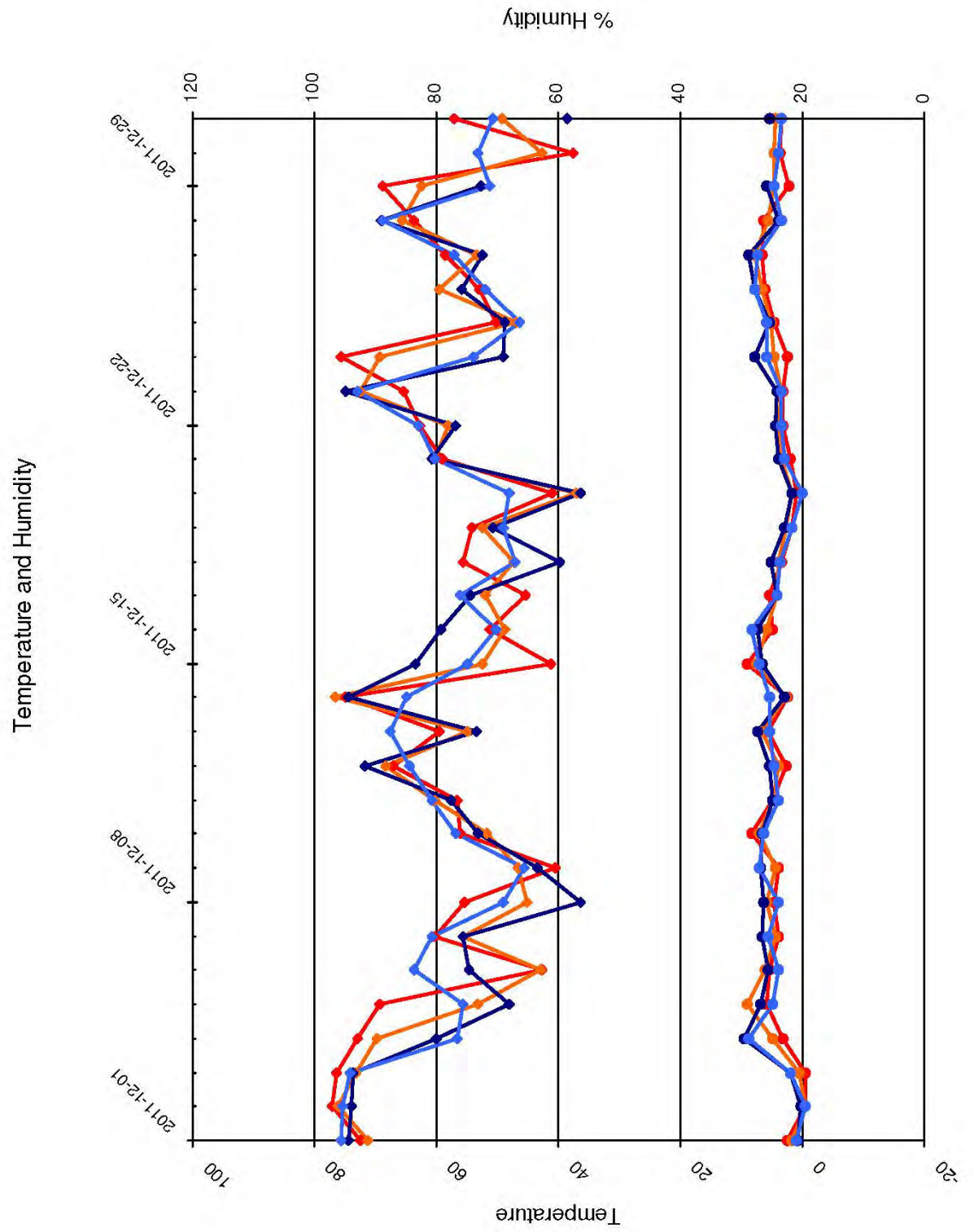


Fig. 19 Temperature and humidity in December 2011

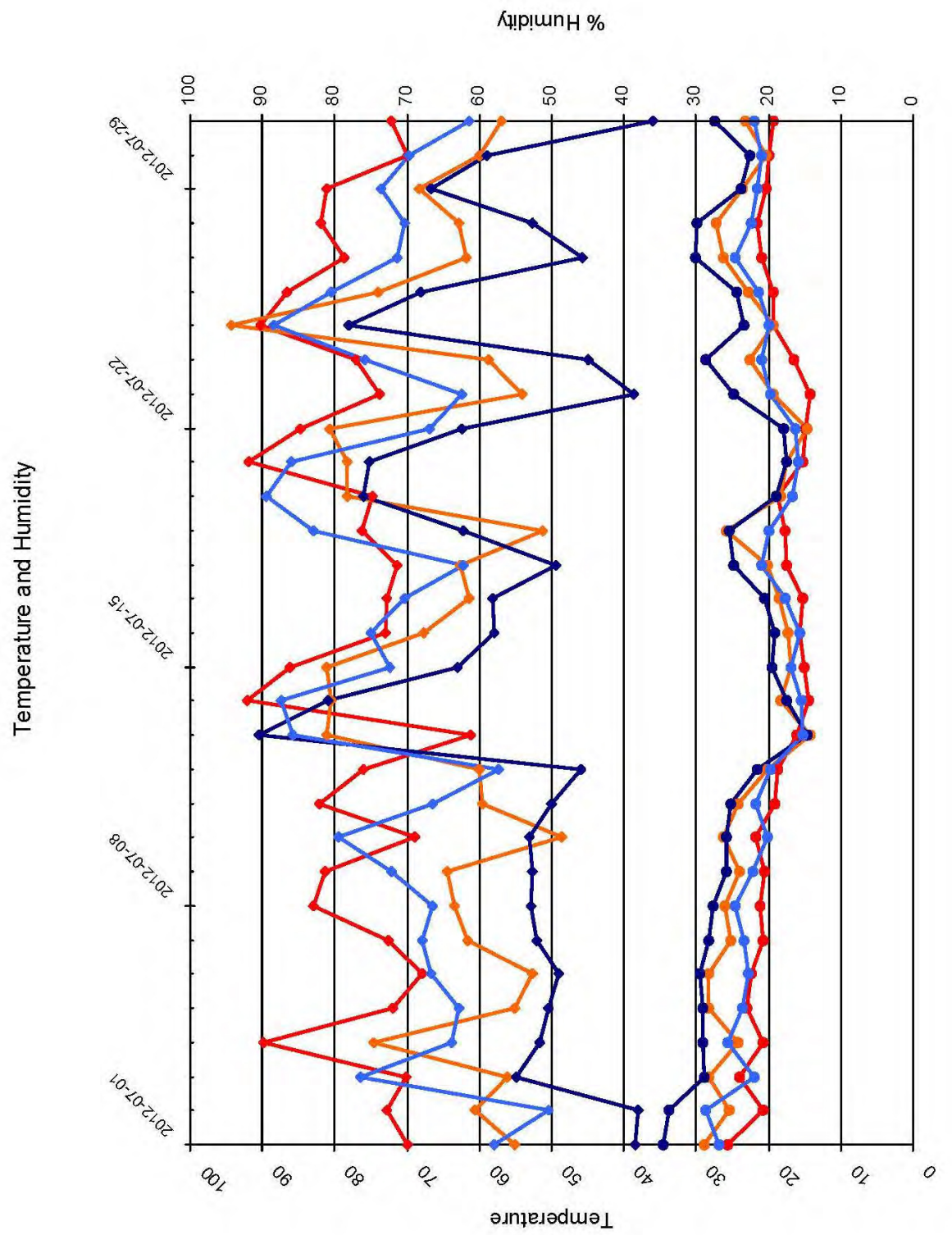


Fig. 20 Temperature and humidity in July 2012

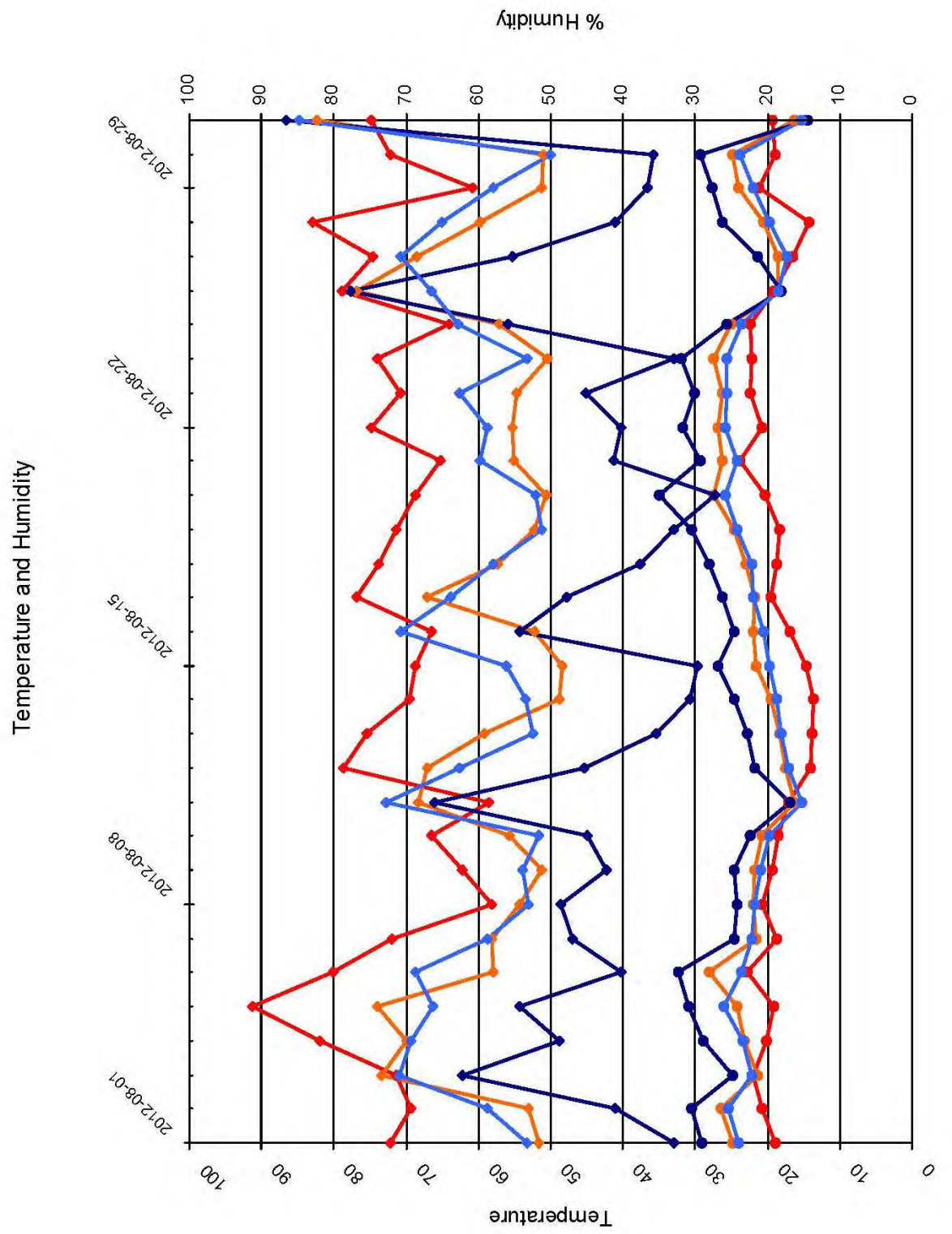


Fig. 21 Temperature and humidity in August 2012

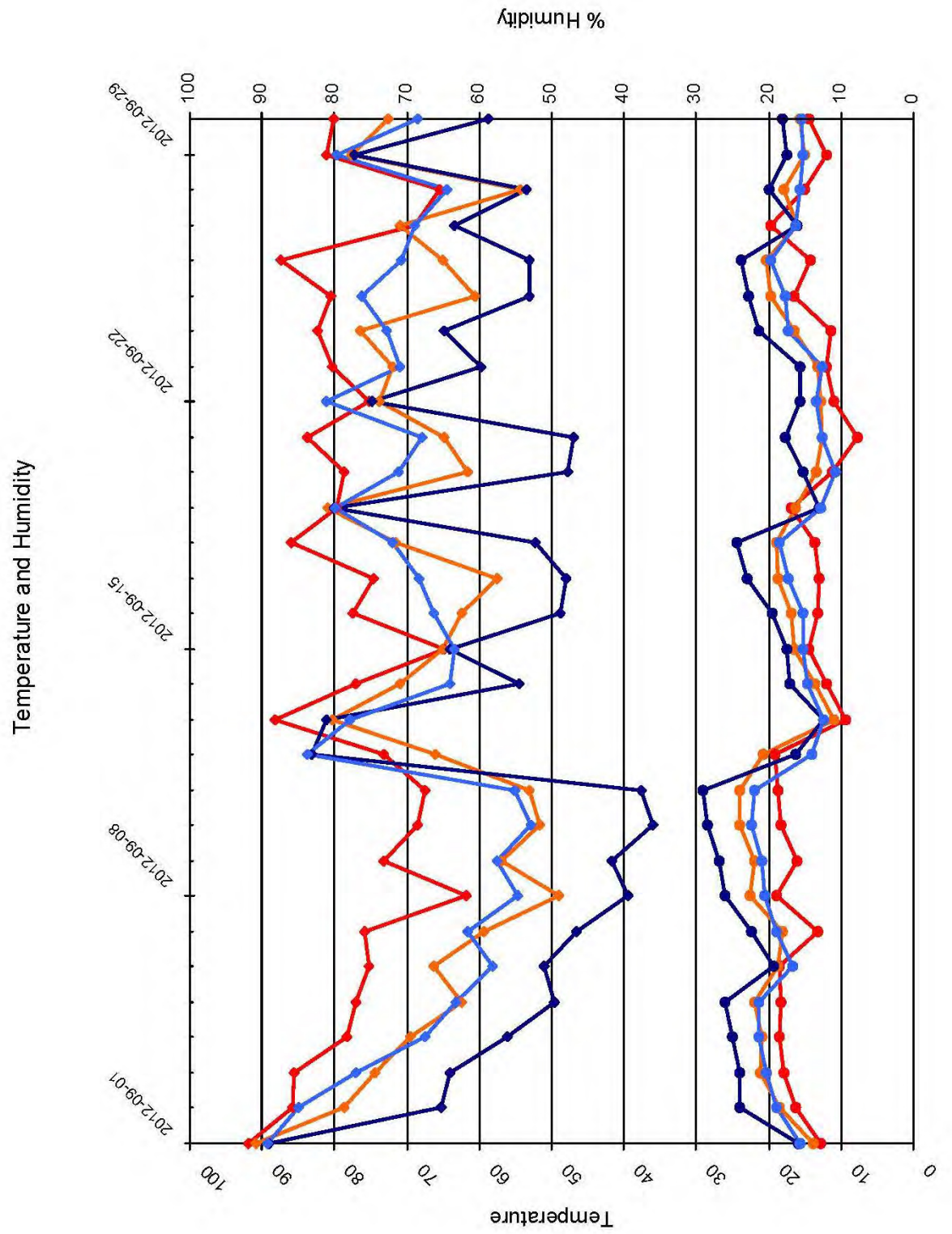


Fig. 22 Temperature and humidity in September 2012

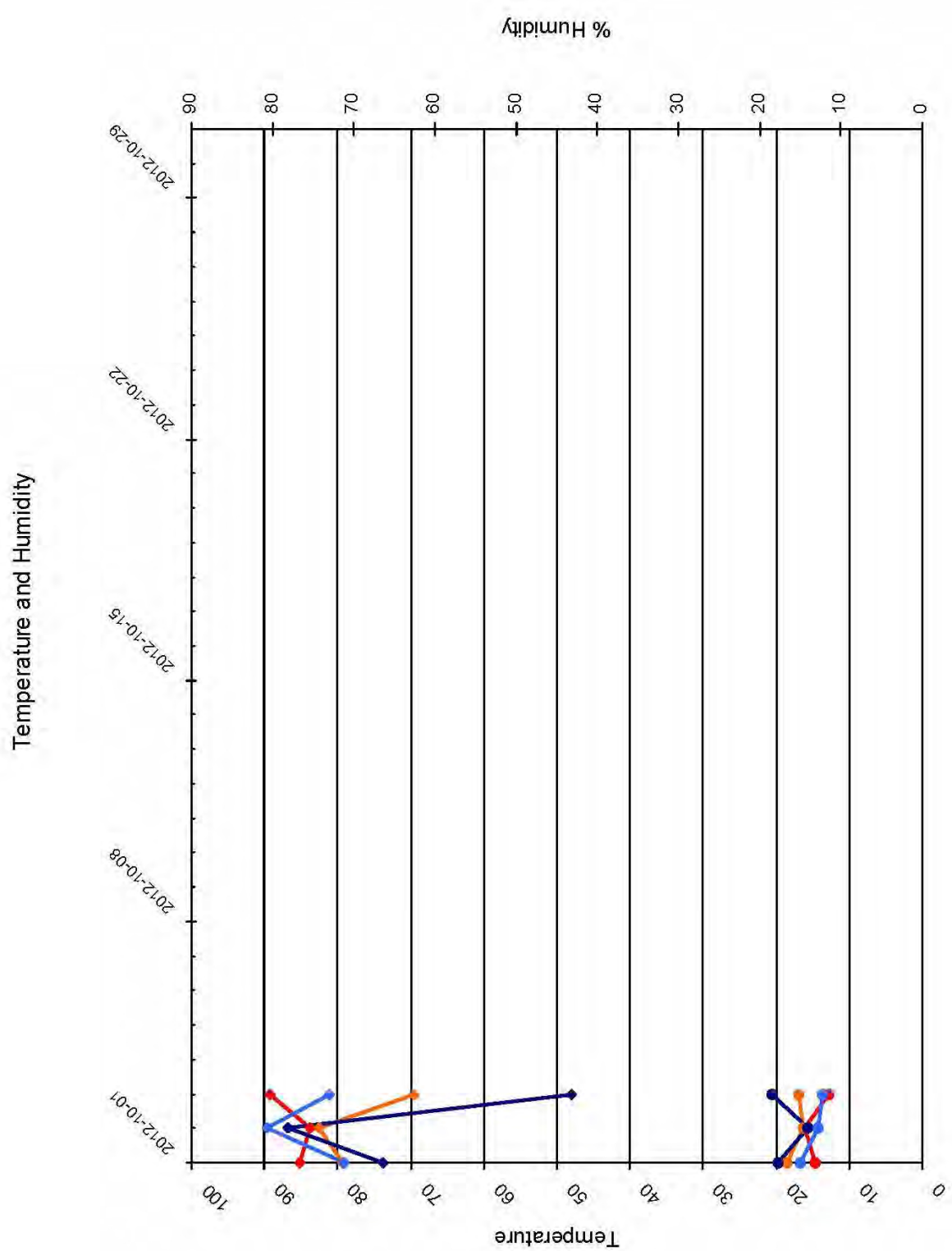


Fig. 23 Temperature and humidity in October 2012

3.2 Pollen counts

The main results of the pollen counts of the most important taxa in this study are expressed in bar diagrams with the total number of counted pollen per day. Only diagrams with a number of minimum five pollen grains on at least one day per month were added in this chapter. Pollen counts are shown in the appendix.

3.2.1 Asteraceae

The family Asteraceae consists of two subfamilies, Asteroideae and Cichorioideae [FISCHER et al. 2005]. Counted pollen grains were assigned to the two subfamilies which can be easily distinguished by its ornamentation. Cichorioideae pollen is well-defined by its characteristic pattern of the outer exine, called lophae, while Asteroideae pollen grains show an echinate ornamentation [PALDAT, 2013-11-21, HESSE et al. 2009].

The size of Asteraceae pollen grains ranges from small (10-25 μm), e.g. *Artemisia spp.*, to medium-sized (26-50 μm), e.g. *Cirsium spp.*, up to large (51-100 μm), instance given *Echinops spp.* Asteraceae pollen is characterized by its echinate or microechinate ornamentation as well as the aperture type and number which is predominantly 3-colporate. The majority of the isopolar pollen grains show a spheroidal outline in equatorial view and a circular outline in polar view. Though, some pollen grains, e.g. from *Echinops spp.* are prolate and their outline appears triangular in polar view [PALDAT, 2013-11-21].

Ambrosia artemisiifolia and *Artemisia spp.* are subordinated to Asteroideae. In this study, both *Ambrosia artemisiifolia* and *Artemisia spp.* pollen grains were counted separately because in aeropalynology they are of particular relevance and were therefor not merged within other species of Asteroideae.

3.2.1.1 Asteroideae incl. *Ambrosia artemisiifolia* and *Artemisia* spp.

Profile – Asteroideae



Widespread species:

Helianthus sp.

Solidago sp.

Bellis sp.

Matricaria sp.

Chrysanthemum sp.

Fig. 24 Flowers of *Solidago virgaurea*.

Pollen characterisation

Size: small (10-25 μm) / medium (26-50 μm) / large (51-100 μm)

Polarity: isopolar

Shape: spheroidal in equatorial view, circular in polar view, some prolate in equatorial view and triangular in polar view

Aperture number: 3

Aperture type: colporate

Ornamentation: echinate or microechinate

Flowering period: July - October

References: PALDAT [accessed 2013-11-21], FISCHER et al. 2005

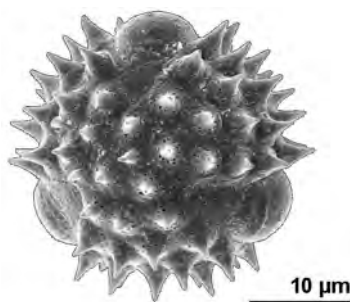


Fig. 25 *Solidago virgaurea* pollen grain in SEM, polar view.

Results of the pollen counts

2011

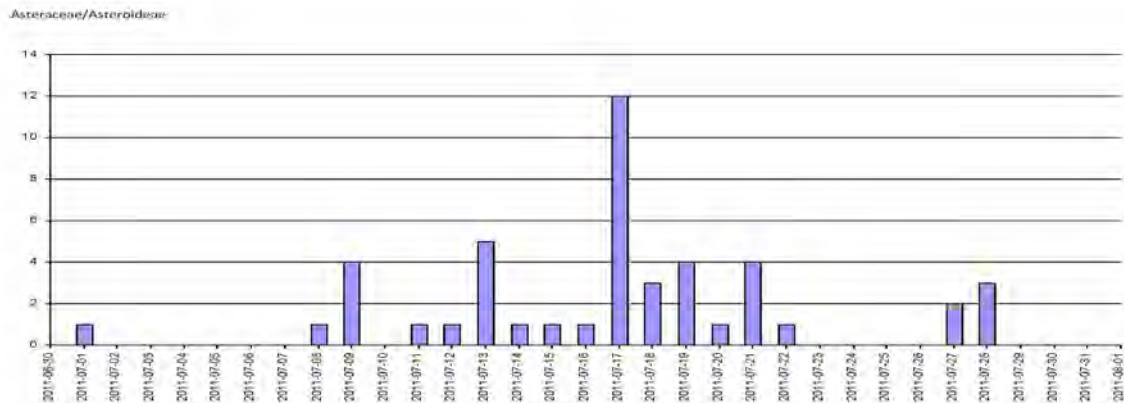


Fig. 26 Total pollen counts Asteraceae/Asteroidae July 2011

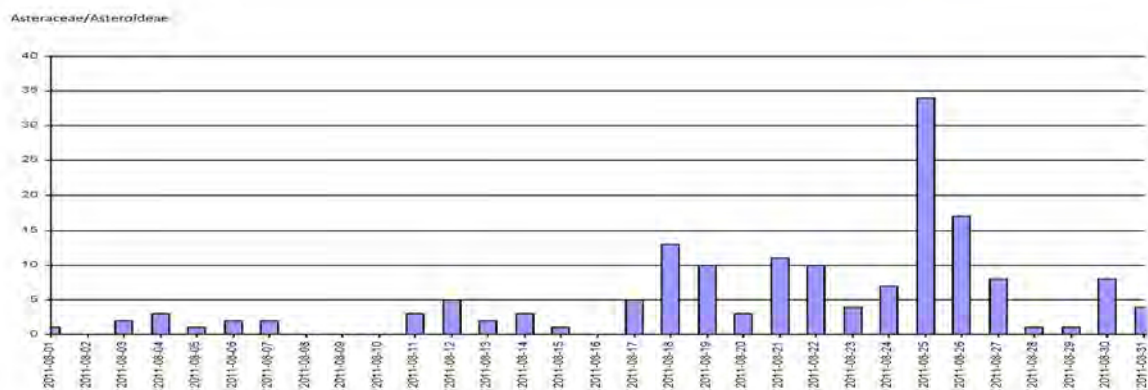


Fig. 27 Total pollen counts Asteraceae/Asteroidae August 2011

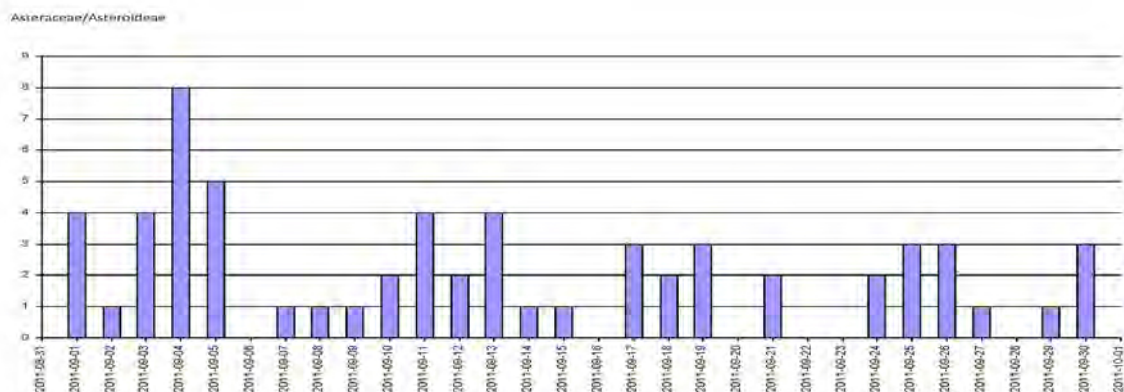


Fig. 28 Total pollen counts Asteraceae/Asteroidae September 2011

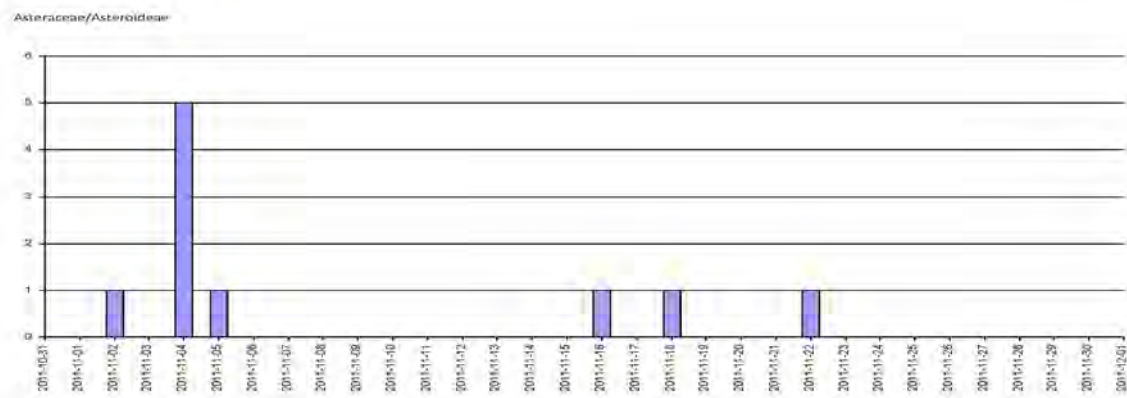


Fig. 29 Total pollen counts Asteraceae/Asteroideae November 2011

2012

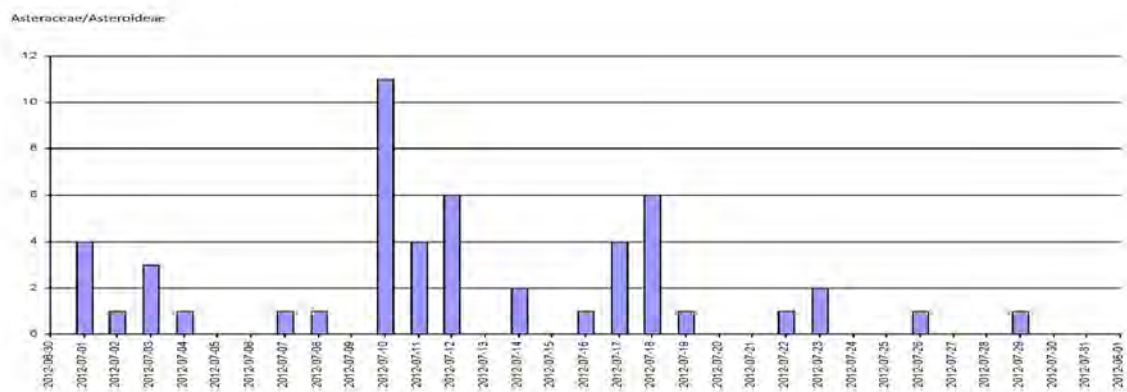


Fig. 30 Total pollen counts Asteraceae/Asteroideae July 2012

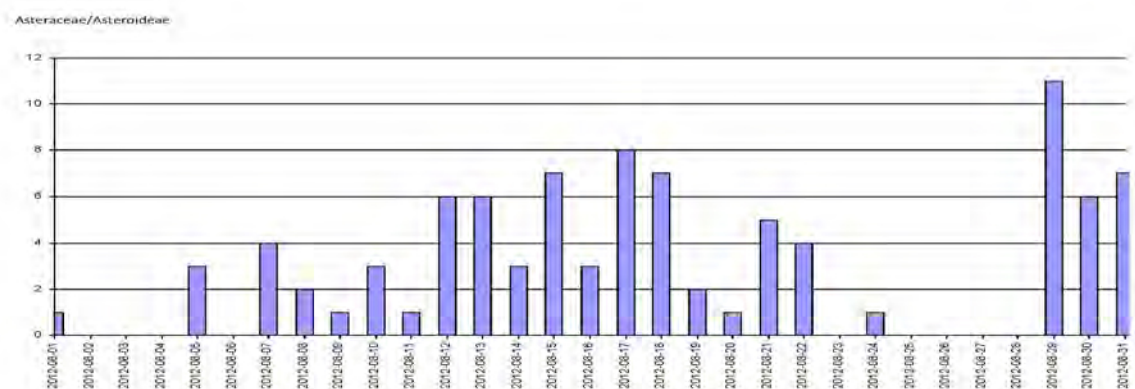


Fig. 31 Total pollen counts Asteraceae/Asteroideae August 2012

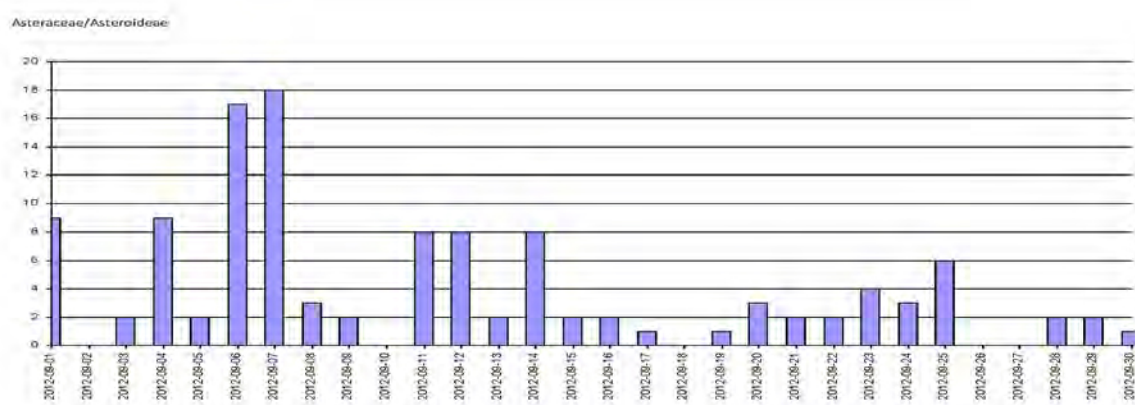


Fig. 32 Total pollen counts Asteraceae/Asteroideae September 2012

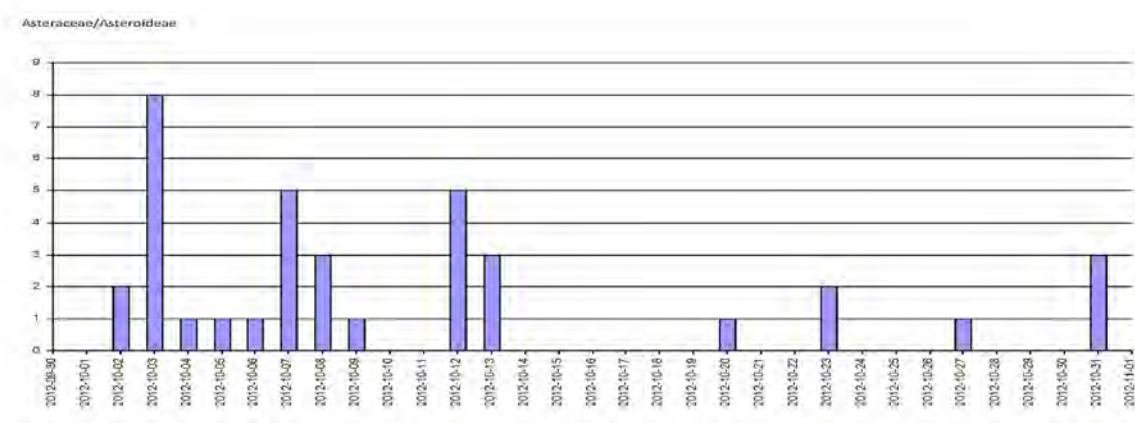


Fig. 33 Total pollen counts Asteraceae/Asteroideae October 2012

Pollen from the taxon Asteroideae was present in all months except December 2011, showing the highest incidence in August 2011 and in August and September 2012. The daily pollen concentrations were always relatively low and there was no significant peak recorded. The maximum value was reached on August 25, 2011 with 34 pollen grains.

Profile – *Ambrosia artemisiifolia*



Fig. 34 Inflorescence of *Ambrosia artemisiifolia*.

Pollen characterisation

Size:	small (10-25 μm)
Polarity:	isopolar
Shape:	spheroidal in equatorial view, circular in polar view
Aperture number:	3
Aperture type:	colporus, very short (brevicolporate)
Ornamentation:	echinate
Flowering period:	August – September/October

References: PALDAT [accessed 2013-11-21], FISCHER et al. 2005

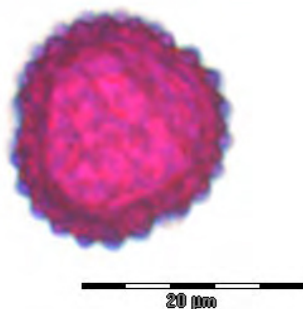


Fig. 35 *Ambrosia artemisiifolia* pollen grain (pure culture), polar view, fuchsin stain.

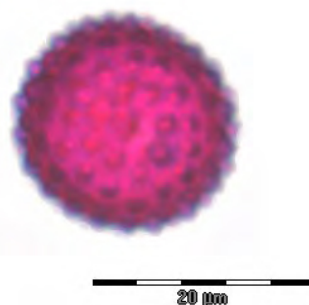


Fig. 36 *Ambrosia artemisiifolia* pollen grain (pure culture), equatorial view, fuchsin-stain.

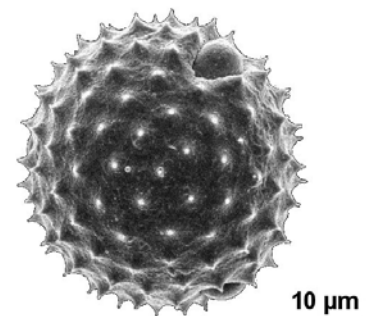


Fig. 37 *Ambrosia artemisiifolia* pollen grain in SEM, polar view.

Ambrosia artemisiifolia pollen grains are small (10-25 μm), isopolar and 3-colporate with a very short colporus (brevicolporate). In equatorial view, the pollen grains are shaped spheroidally, in polar view circularly. The pollen surface

shows an echinate ornamentation [PALDAT, 2013-11-21].

Ambrosia artemisiifolia is flowering from August to September or October [FISCHER et al. 2005].

Results of the pollen counts

2011

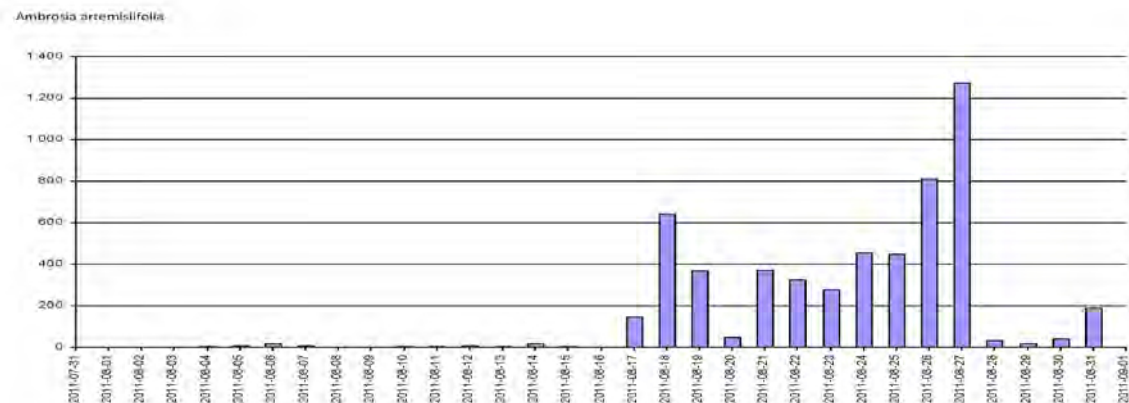


Fig. 38 Total pollen counts *Ambrosia artemisiifolia* August 2011

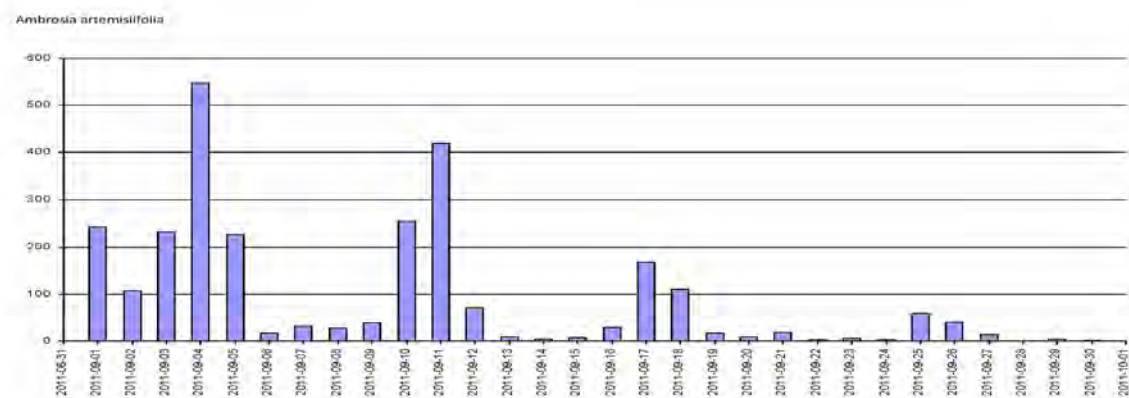


Fig. 39 Total pollen counts *Ambrosia artemisiifolia* September 2011

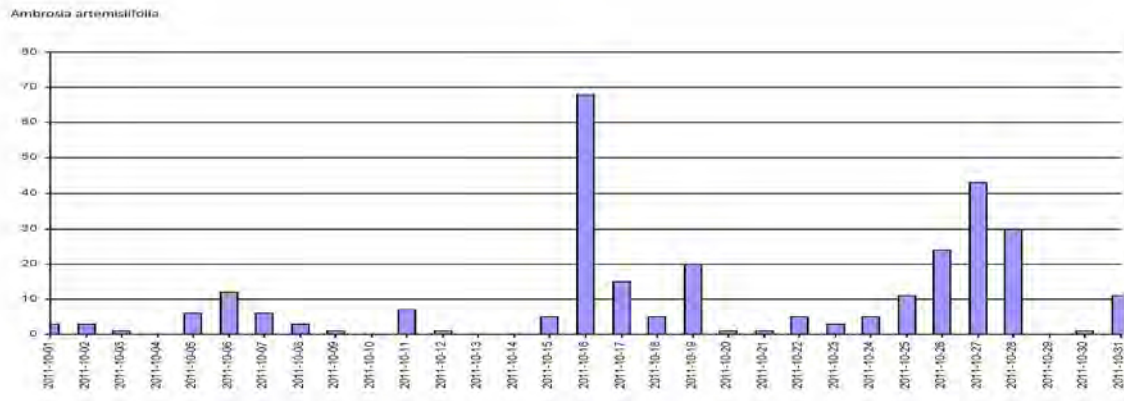


Fig. 40 Total pollen counts *Ambrosia artemisiifolia* October 2011

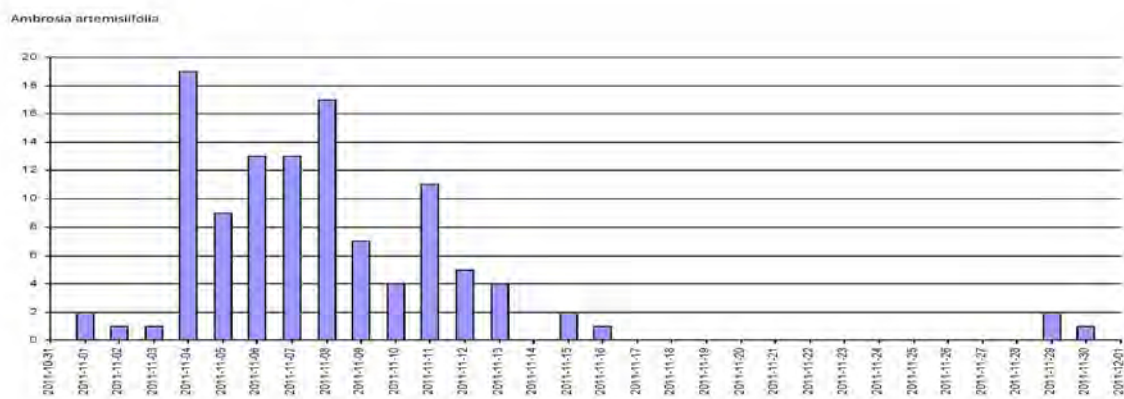


Fig. 41 Total pollen counts *Ambrosia artemisiifolia* November 2011

2012

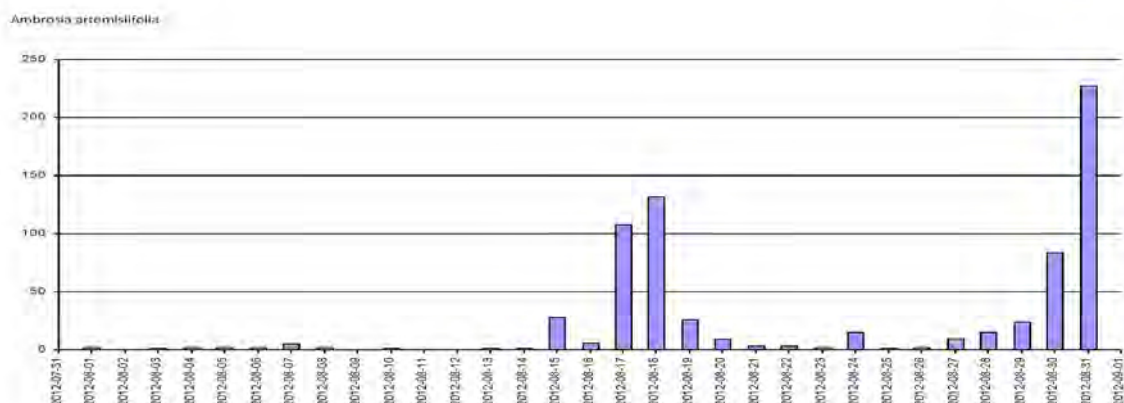


Fig. 42 Total pollen counts *Ambrosia artemisiifolia* August 2012

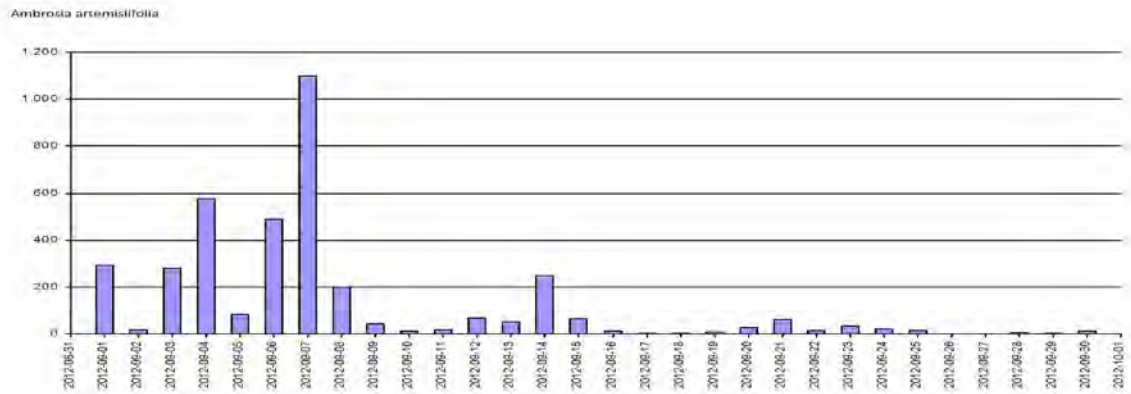


Fig. 43 Total pollen counts *Ambrosia artemisiifolia* September 2012

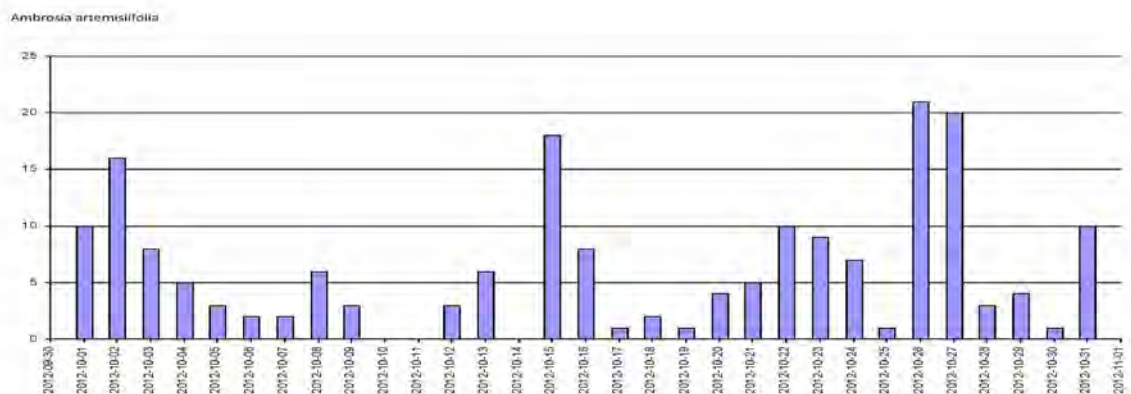


Fig. 44 Total pollen counts *Ambrosia artemisiifolia* October 2012

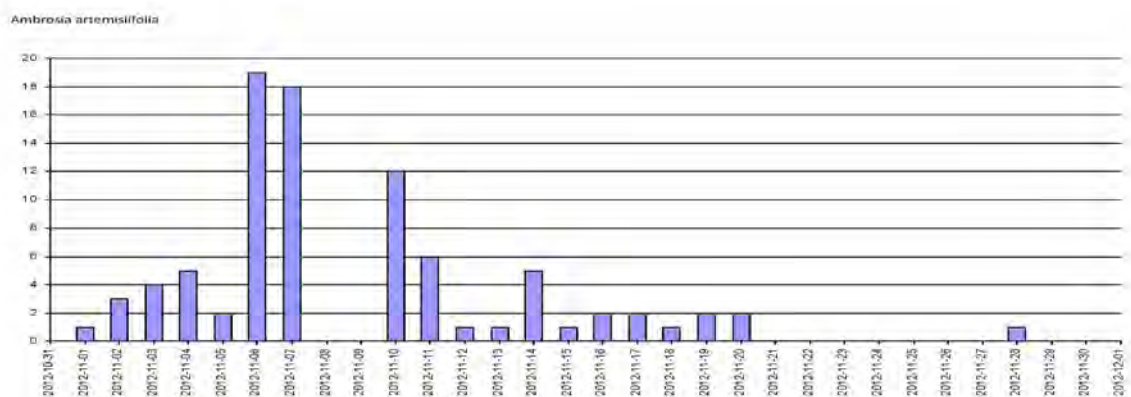


Fig. 45 Total pollen counts *Ambrosia artemisiifolia* November 2012

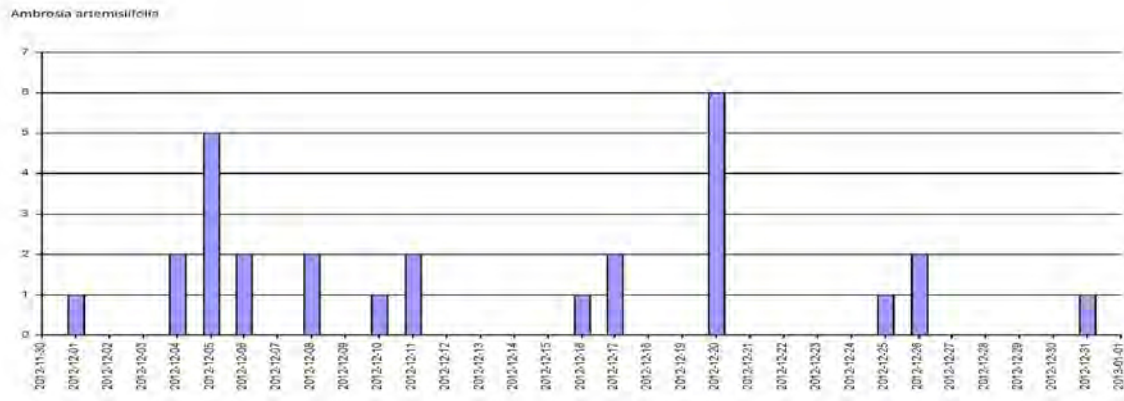


Fig. 46 Total pollen counts *Ambrosia artemisiifolia* December 2012

The main pollen season of *Ambrosia artemisiifolia* in 2011 was in August where the highest concentration was counted on August 27 with a number of 1274 pollen grains. In 2012, the pollen season started at the same time in August, but reached the peak at the beginning of September. The maximum concentration in this year was recorded on September 7 with a value of 1101 pollen grains. *Ambrosia artemisiifolia* pollen was also detected during all other months except July 2011 but at lower concentrations.

The high concentration of *Ambrosia* pollen in the pollen season was not only observed during the day, but also in the small hours from 00:00 to 06:00 o'clock. For example on August 27, 2011, 588 *A. artemisiifolia* pollen grains were counted in the first six hours of this day.

Profile – *Artemisia* spp.



Fig. 47 Flowers of *Artemisia vulgaris*.

Widespread species:

Artemisia vulgaris

Pollen characterisation

Size:	small (10-25 μm)
Polarity:	isopolar
Shape:	spheroidal in equatorial view, circular in polar view; <i>A. pontica</i> : oblate in equatorial, lobate in polar view
Aperture number:	3
Aperture type:	colporus
Ornamentation:	microechinate
Flowering period:	July - September (most species); exception: <i>A. verlotiorum</i> October - November

References: PALDAT [accessed 2013-11-21], FISCHER et al. 2005

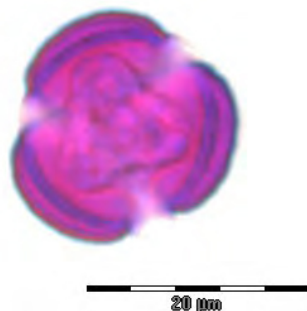


Fig. 48 *Artemisia vulgaris* pollen grain (pure culture), polar view, fuchsin-stain.

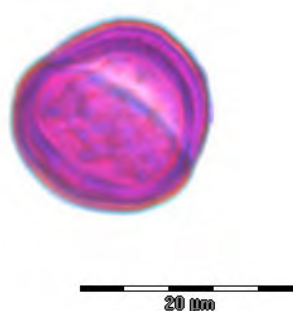


Fig. 49 *Artemisia vulgaris* pollen grain (pure culture), equatorial view, fuchsin-stain.

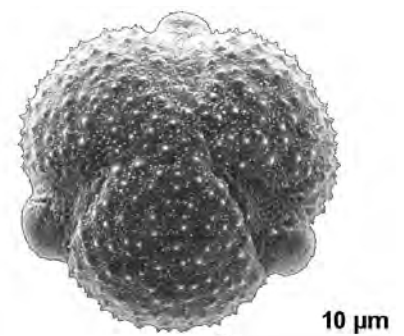


Fig. 50 *Artemisia vulgaris* pollen grain in SEM, polar view.

Artemisia pollen grains are usually small isopolar grains (10-25 µm) with 3-colporate apertures. Their ornamentation is either echinate or unknown. The shape is spheroidal in equatorial and circular in polar view. In the case of *A. pontica*, pollen grains are oblate in equatorial view and lobate in polar view [PALDAT, 2013-11-21].

Most species of *Artemisia*, like *Artemisia vulgaris*, *A. annua* or *A. absinthium*, have a pollen season lasting from July to September. However, *A. verlotiorum* is in flower from October to November [FISCHER et al. 2005].

Results of the pollen counts

2011

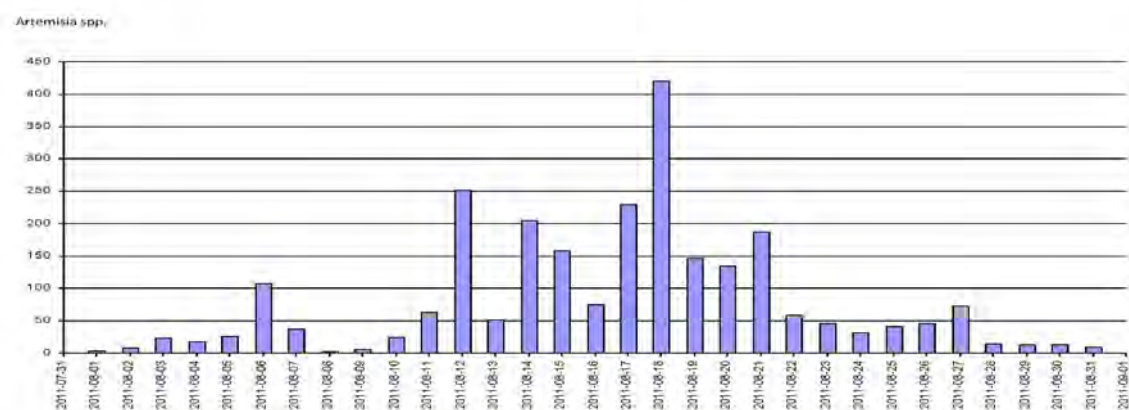


Fig. 51 Total pollen counts *Artemisia* spp. August 2011

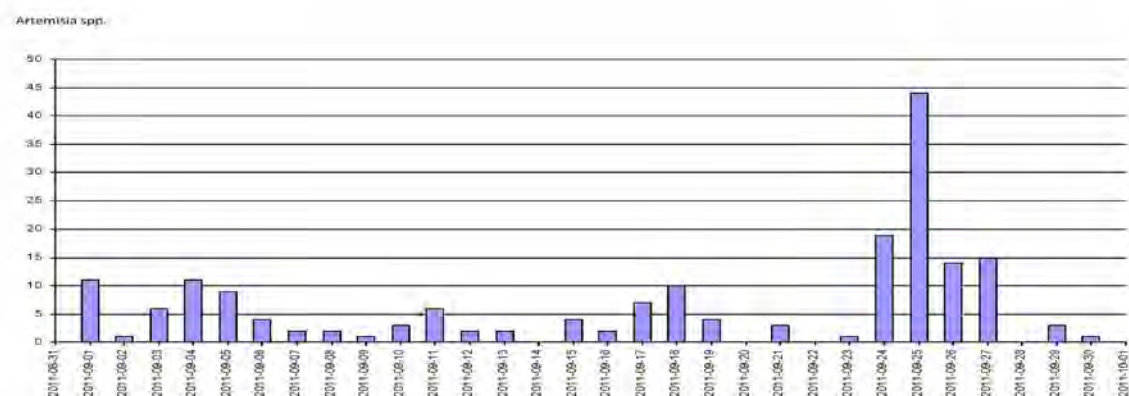


Fig. 52 Total pollen counts *Artemisia* spp. September 2011

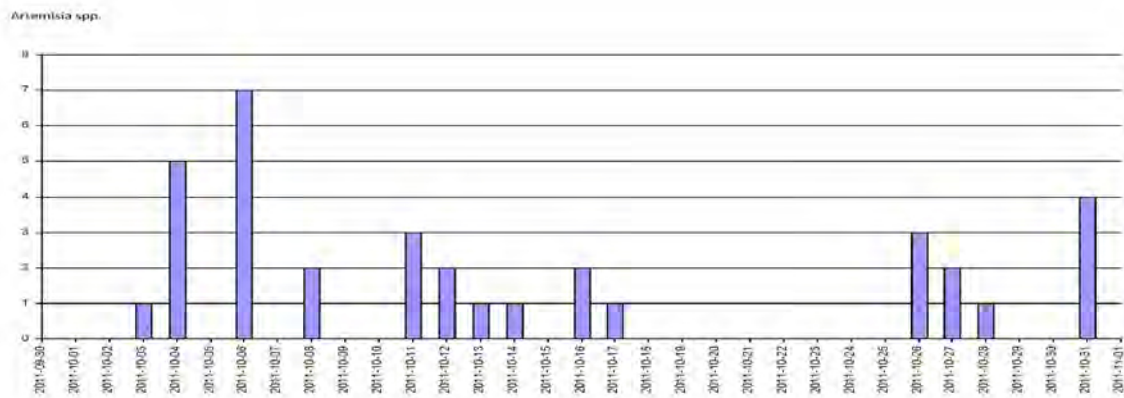


Fig. 53 Total pollen counts *Artemisia* spp. October 2011

2012

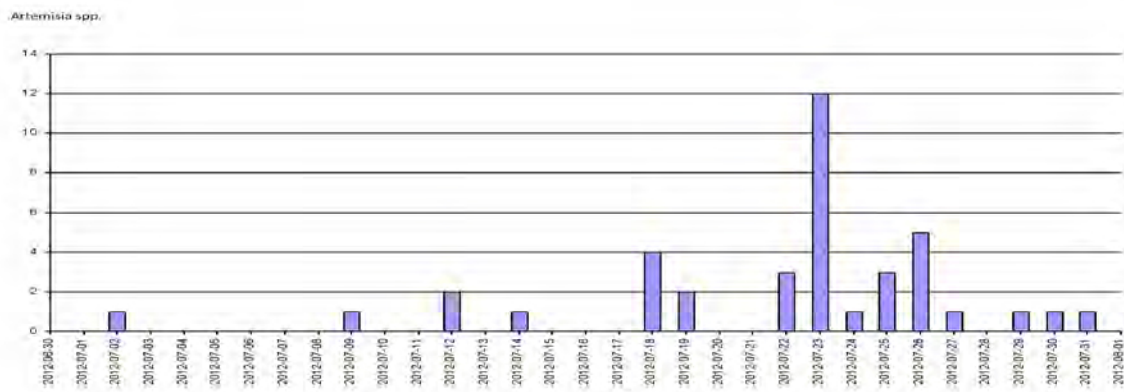


Fig. 54 Total pollen counts *Artemisia* spp. July 2012

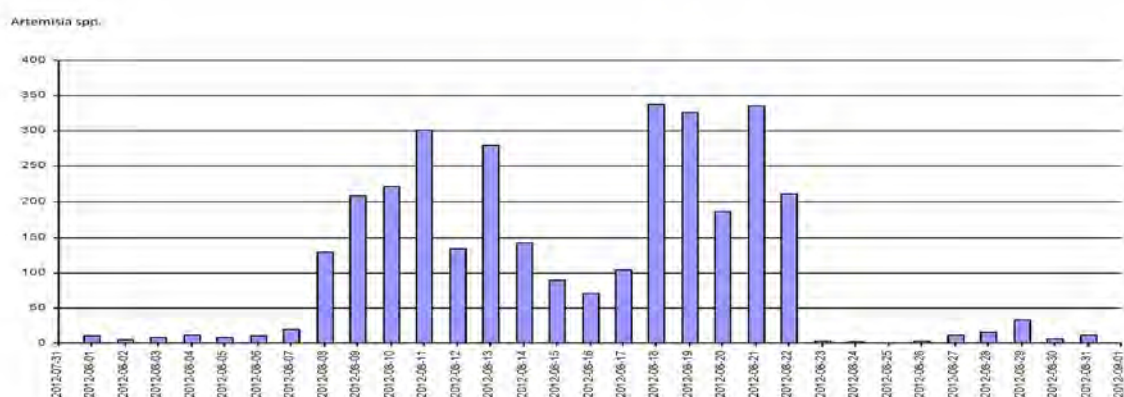


Fig. 55 Total pollen counts *Artemisia* spp. August 2012

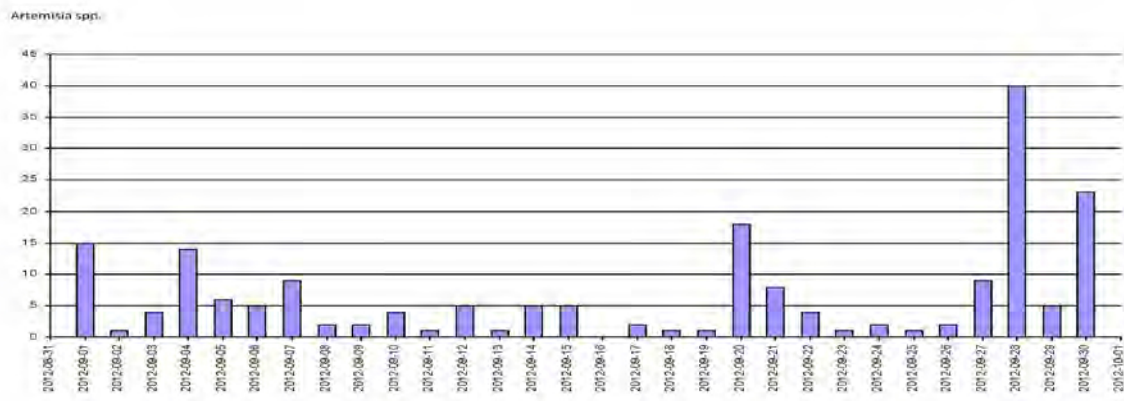


Fig. 56 Total pollen counts *Artemisia spp.* September 2012

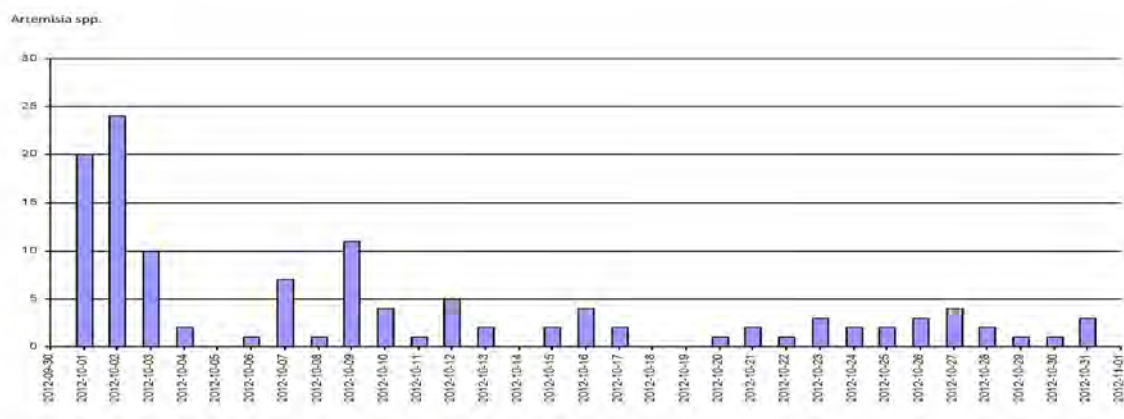


Fig. 57 Total pollen counts *Artemisia spp.* October 2012

In both years, the maximal monthly pollen counts of *Artemisia spp.* pollen were recorded in mid-August. The concentration peaks were reached on August 18 in 2011 as well as in 2012. In 2011, the counted maximum was 420, in 2012 it was 338 pollen grains.

Artemisia spp. pollen also appears in relatively high amounts between 00:00 and 06:00 o'clock in the morning during the pollen season.

3.2.1.2 Cichorioideae

Profile – Cichorioideae



Widespread species:
Taraxacum officinale

Fig. 58 Flowers of *Taraxacum officinale*.

Pollen characterisation

Size:	medium (26-50 µm) / large (51-100 µm)
Polarity:	isopolar
Shape:	spheroidal in equatorial view, circular in polar view
Aperture number:	3
Aperture type:	colporate
Ornamentation:	echinate
Miscellaneous:	lophate
Flowering period:	July - October

References: PALDAT [accessed 2013-11-21], FISCHER et al. 2005



Fig. 59 *Taraxacum officinale*
pollen grain, fuchsin-stain.

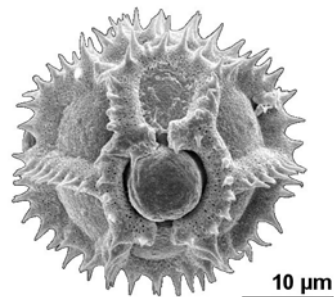


Fig. 60 *Taraxacum officinale* pollen
grain in SEM, equatorial view.

Results of the pollen counts

In both years Cichorioideae pollen grains appeared only scattered from July until November with not more than two pollen grains per day.

3.2.2 *Castanea sativa* (Fagaceae)

Profile



Fig. 61 Inflorescence of *Castanea sativa*.

Pollen characterisation

Size:	small (10-25 μm)
Polarity:	isopolar
Shape:	prolate in equatorial view, circular in polar view
Aperture number:	3
Aperture type:	colporus
Ornamentation:	psilate in LM, rugulate in SEM
Flowering period:	June - July

References: PALDAT [accessed 2013-11-26], FISCHER et al. 2005



Fig. 62 *Castanea sativa* pollen grain (pure culture), equatorial view, fuchsin-stain.



Fig. 63 *Castanea sativa* pollen grain (pure culture), polar view, fuchsin-stain.

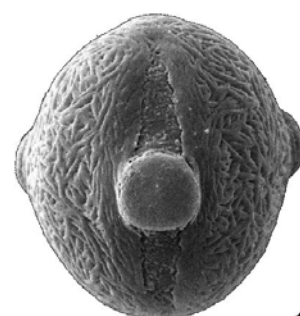


Fig. 64 *Castanea sativa* pollen grain in SEM, equatorial view.

Castanea sativa has 3-colporate and small (10-25 μm) pollen grains with a psilate ornamentation. They are isopolar grains shaped prolate in equatorial view and circular in polar view [PALDAT, 2013-11-26].

C. sativa, also known as European chestnut, flowers from June to July [FISCHER et al. 2005].

Results of the pollen counts

2011

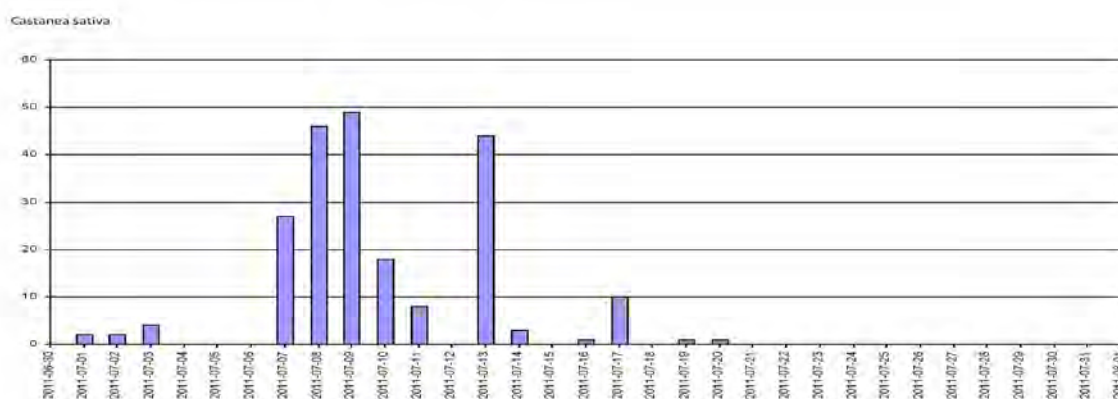


Fig. 65 Total pollen counts *Castanea sativa* July 2011

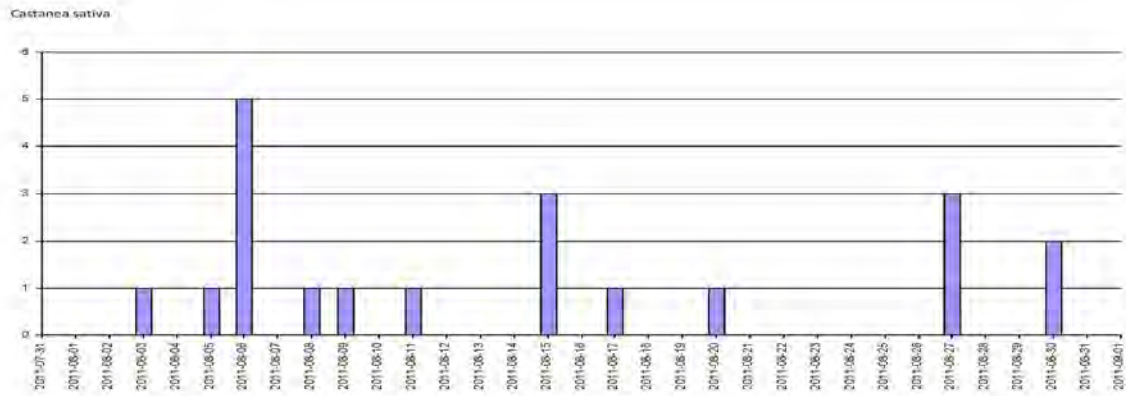


Fig. 66 Total pollen counts *Castanea sativa* August 2011

2012

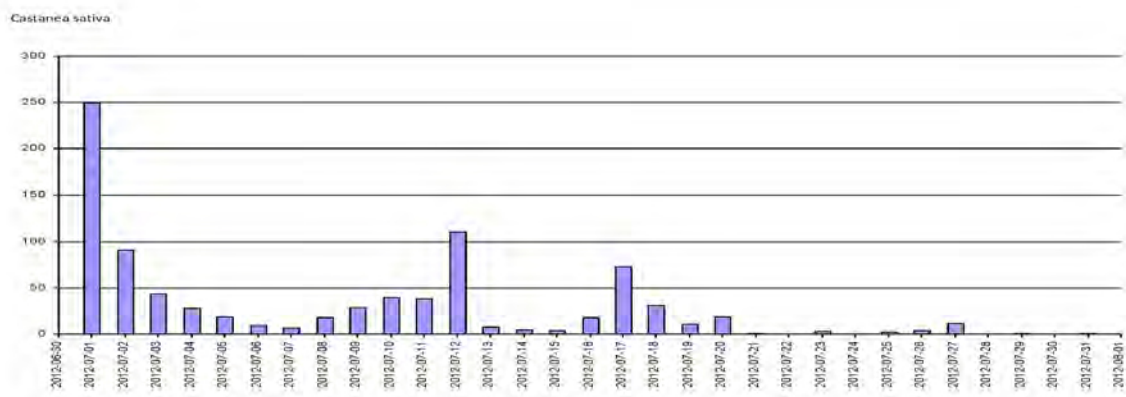


Fig. 67 Total pollen counts *Castanea sativa* July 2012

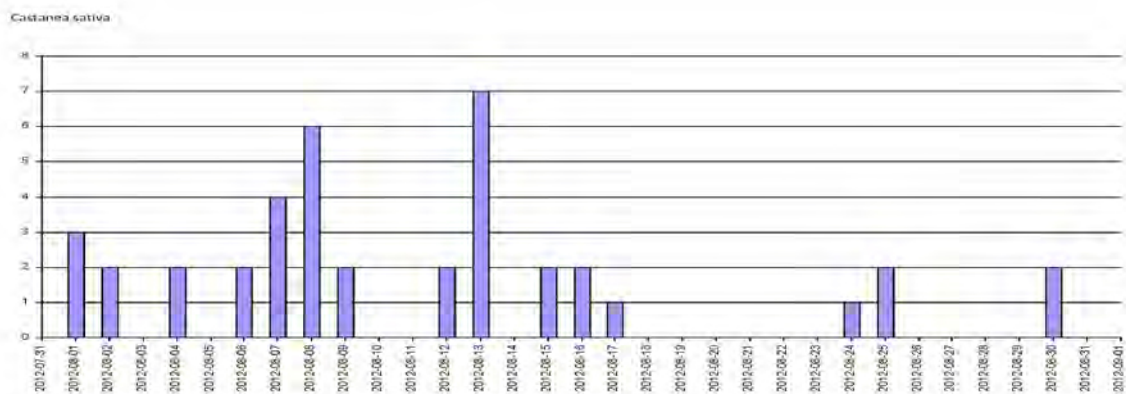


Fig. 68 Total pollen counts *Castanea sativa* August 2012

The pollen of *Castanea sativa* prevails in July, whereas monthly maximum concentrations were recorded on July 9 in 2011 with a value of 49 pollen grains and on July 1 in 2012 where the peak concentration reached 249 pollen grains. In July of both years there was also registered a relatively high amount of airborne *Castanea* pollen during the period of 00:00 to 06:00 a.m., compared to the counted number during the day.

To investigate the incidence of *Castanea* pollen in the early hours, exemplarily two backward trajectories for *Castanea sativa* are presented below. The wind deviations are represented by different colours while the end (Vienna) of the back-trajectories are symbolized by a star, e.g. the pink line indicates a wind flow starting at 2012-06-30 00:00 at a height of 1.000 m a.s.l. in Croatia and is ending at 2012-07-01 00:00 in Vienna.

Moreover, the distribution of *Castanea sativa* can be seen in the map. In the graph below, the time of occurrence of the winds is depicted and plotted against meters above ground level.

NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 02 Jul 12
GDAS Meteorological Data

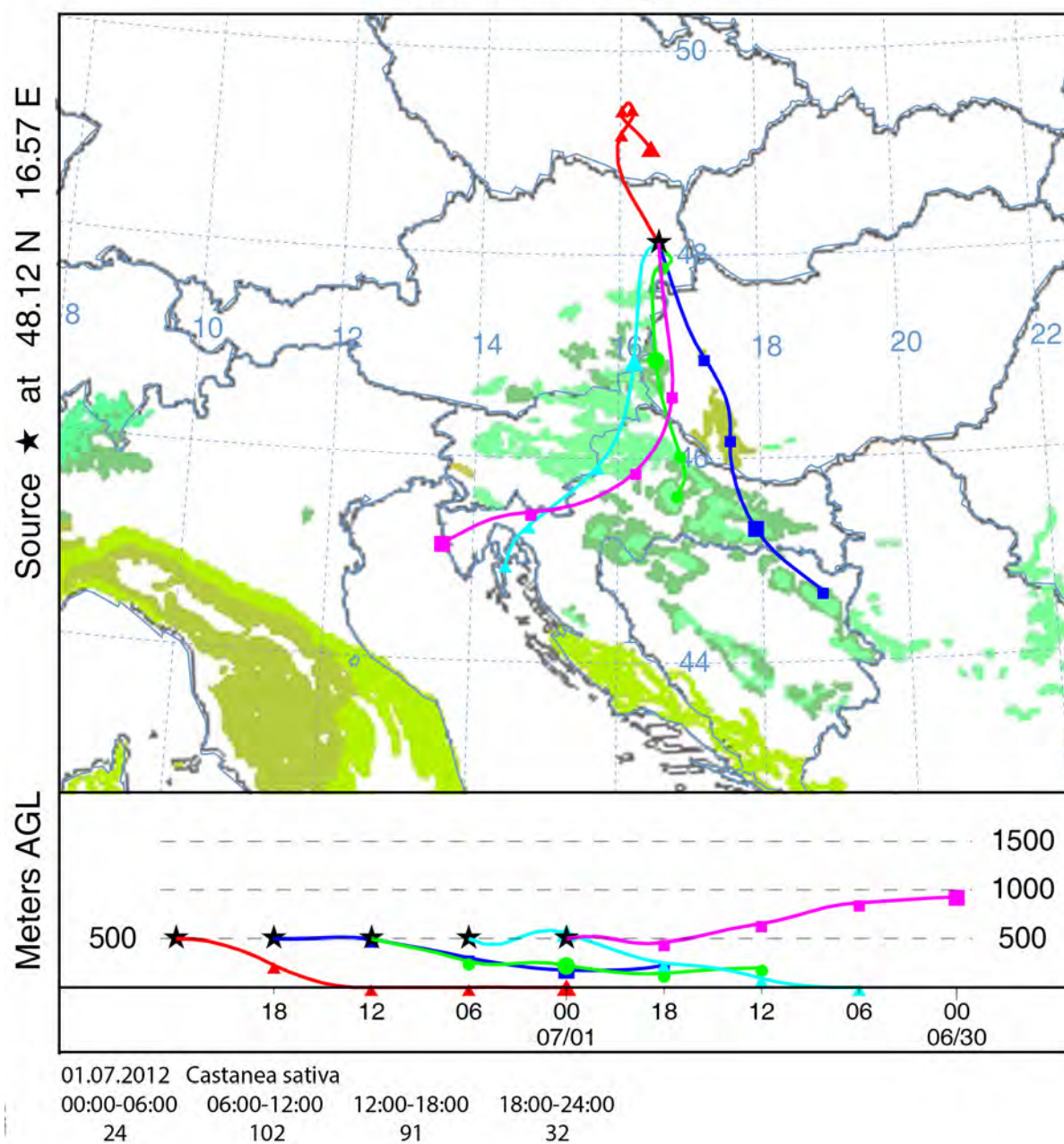


Fig. 69 Backward trajectories for *Castanea sativa* July 1, 2012

NOAA HYSPLIT MODEL
 Backward trajectories ending at 0000 UTC 18 Jul 12
 GDAS Meteorological Data

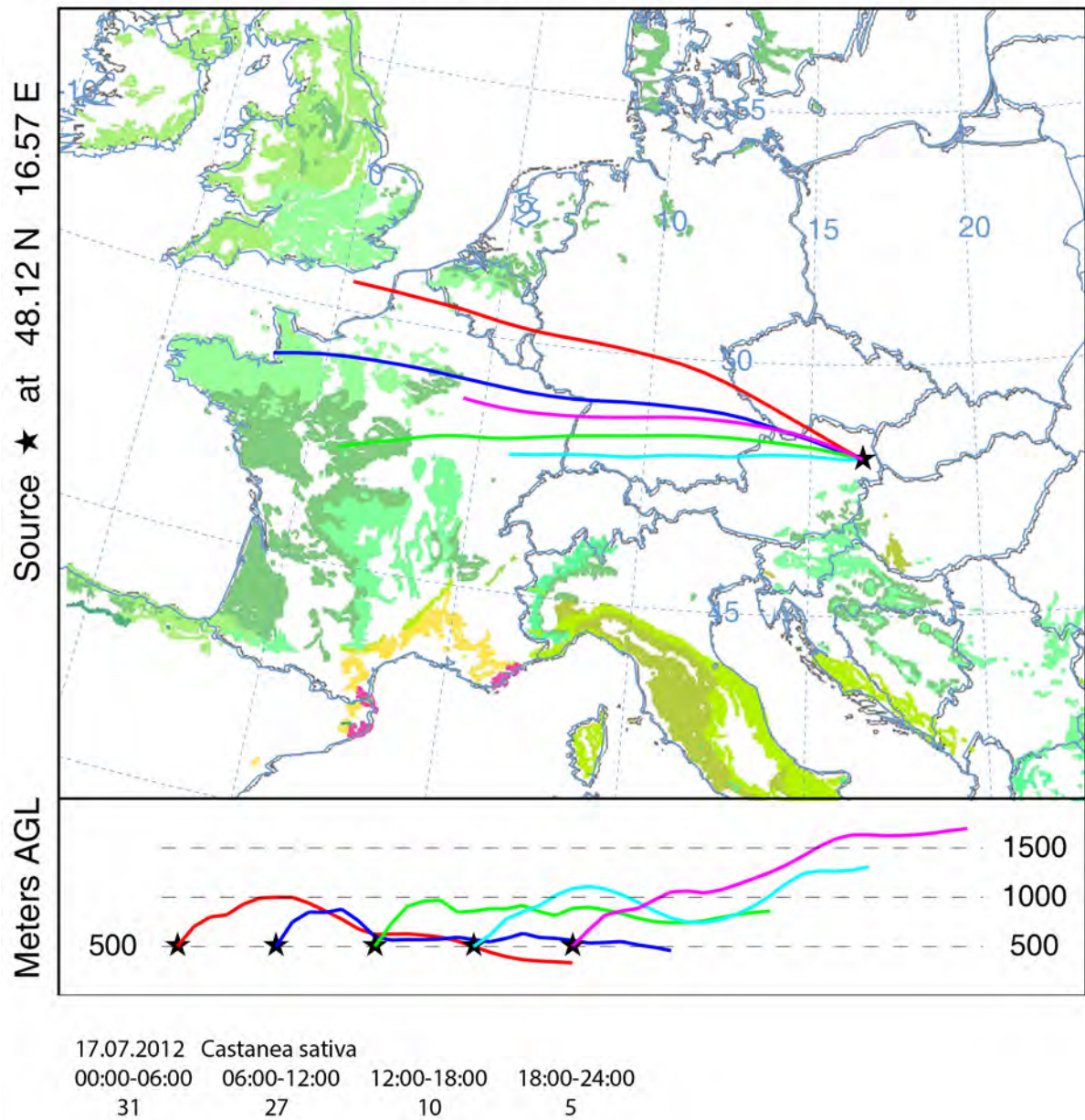


Fig. 70 Backward trajectories for *Castanea sativa* July 18, 2012

3.2.3 Chenopodiaceae

Profile



Widespread species:

Atriplex patula

Chenopodium album

Chenopodium bonus-henricus

Fig. 71 Flowers of *Chenopodium album*.

Pollen characterisation

Size:	small (10-25 μm) or medium (26-50 μm)
Polarity:	isopolar
Shape:	spheroidal in equatorial view, circular in polar view
Aperture number:	>6 (pantoaperturate)
Aperture type:	porate
Aperture peculiarity:	aperture membrane ornamented or operculum present
Ornamentation:	microechinate or granulate
Miscellaneous:	often pollen coated with pollenkitt
Flowering period:	June/July - August/September/October

References: PALDAT [accessed 2013-11-27], FISCHER et al. 2005

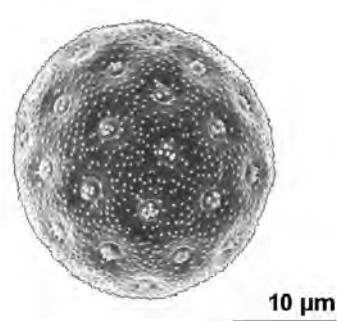
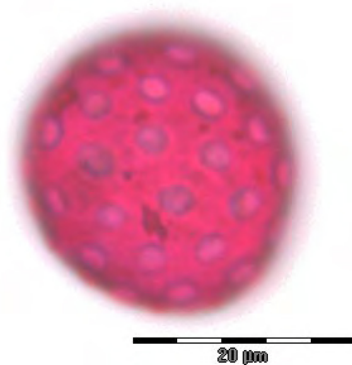


Fig. 72 *Atriplex patula* pollen grain (pure culture), fuchsin-stain. Fig. 73 *Atriplex patula* pollen grain in SEM.

Chenopodiaceae pollen grains are small- (10-25 μm) or medium-sized (26-50 μm), and pantoporate with more than 30 pori that are evenly distributed over the surface. Usually they show an ornamented aperture membrane or an operculum covering the aperture (e.g. *Chenopodium album*). The pollen surface shows a microechinate or granulate ornamentation. Grains from the goosefoot family are isopolar, spheroidal in equatorial view and circular in polar view. When Chenopodiaceae pollen gets dry, the apertures as well as the inapertural areas sink and the grains receive an irregular or often cup-shaped form. Often pollen grains are coated with pollenkitt [KOLLAR 1983, PALDAT, 2013-11-27].

Some Chenopodiaceae have a pollen season lasting from June or July until August, whereas others are flowering until September or October, for instance *Chenopodium bonus-henricus* or *Ch. album* [FISCHER et al. 2005].

Results of the pollen counts

2011

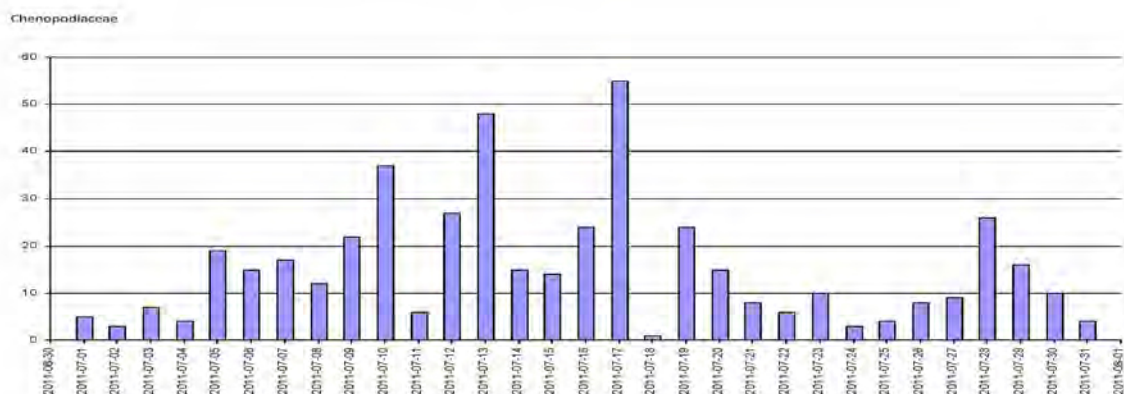


Fig. 74 Total pollen counts Chenopodiaceae July 2011

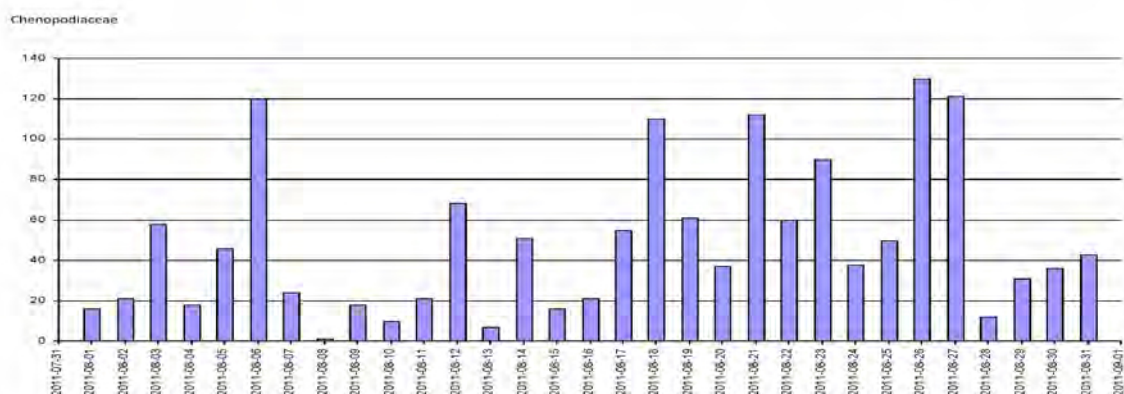


Fig. 75 Total pollen counts Chenopodiaceae August 2011

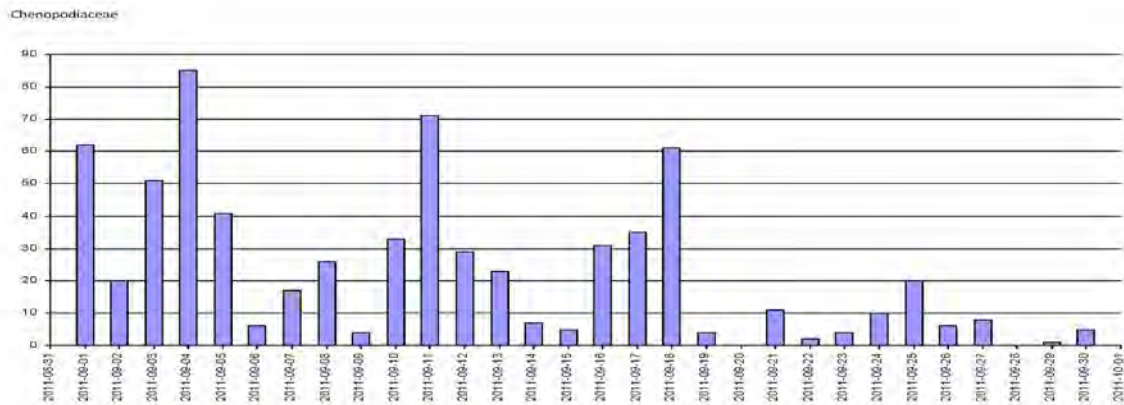


Fig. 76 Total pollen counts Chenopodiaceae September 2011

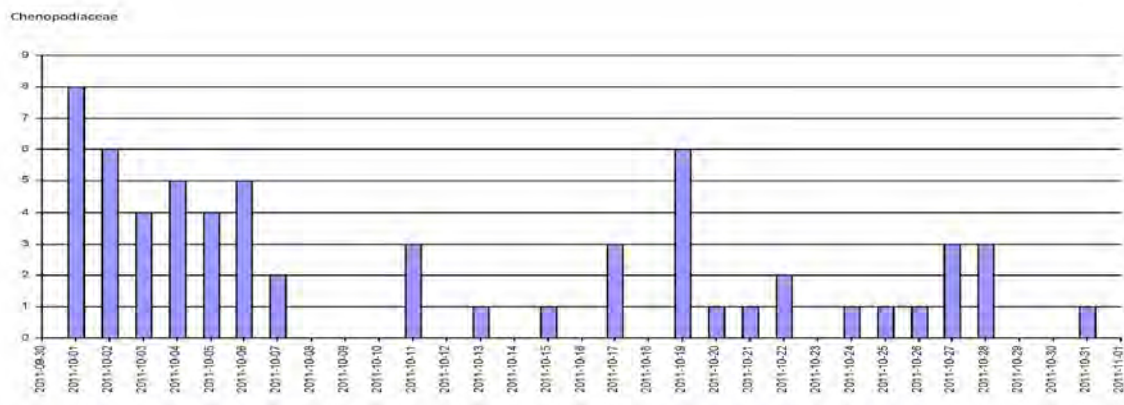


Fig. 77 Total pollen counts Chenopodiaceae October 2011

2012

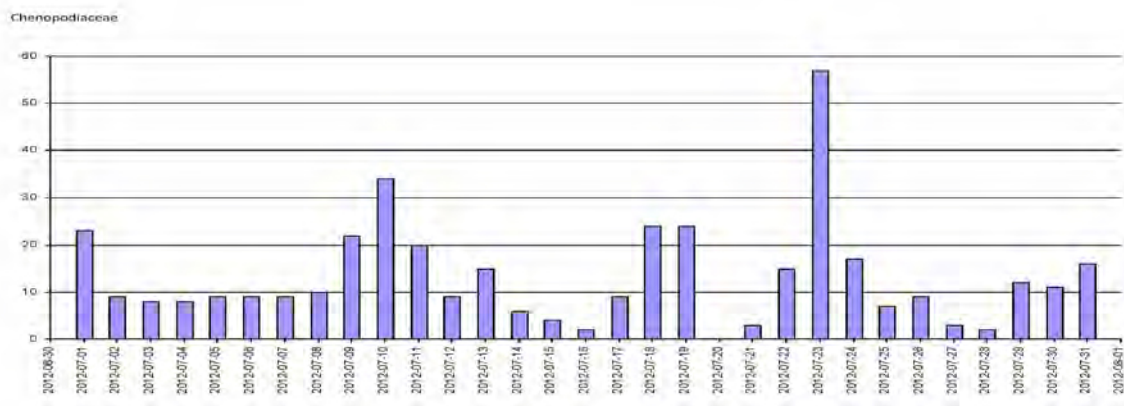


Fig. 78 Total pollen counts Chenopodiaceae July 2012

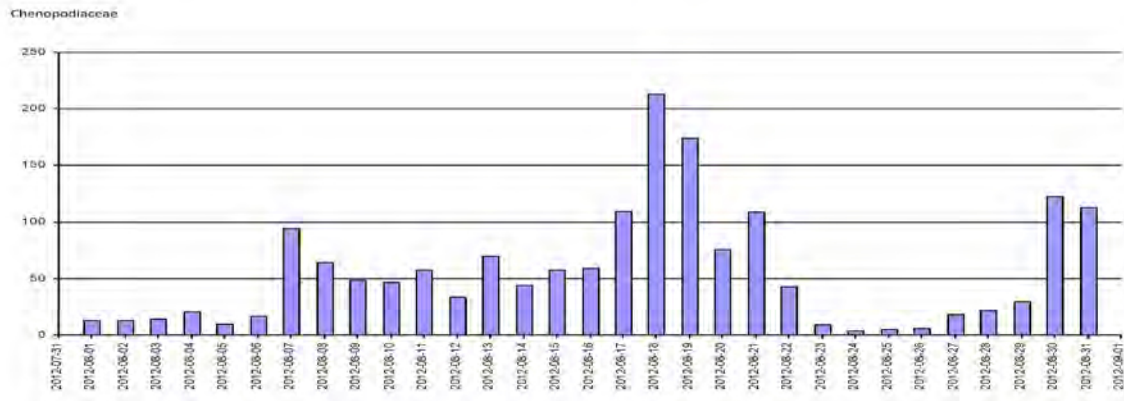


Fig. 79 Total pollen counts Chenopodiaceae August 2012

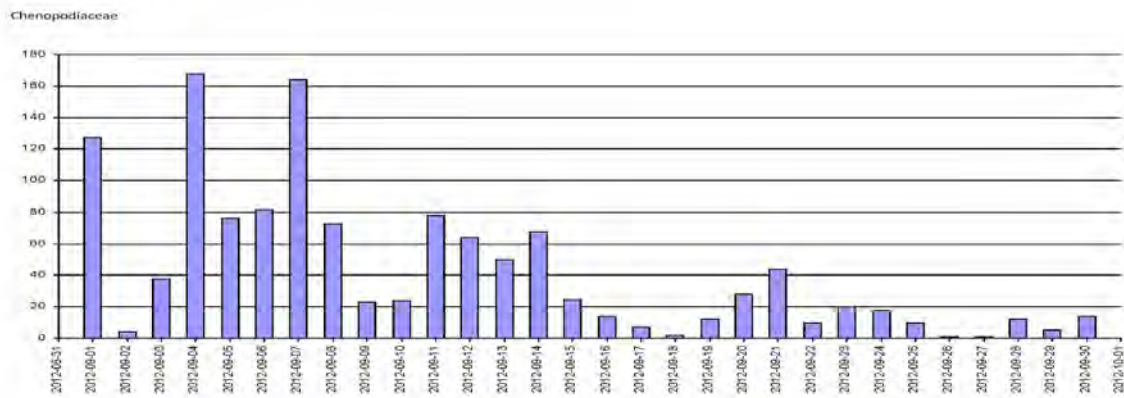


Fig. 80 Total pollen counts Chenopodiaceae September 2012

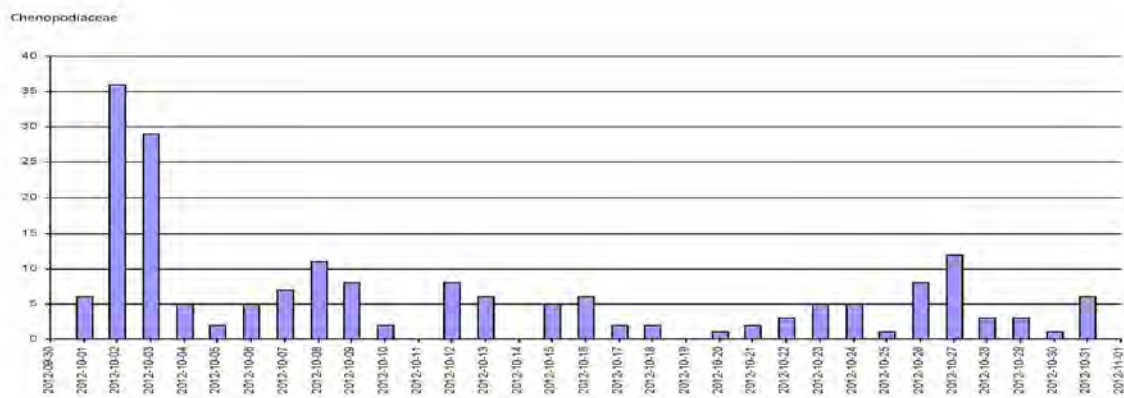


Fig. 81 Total pollen counts Chenopodiaceae October 2012

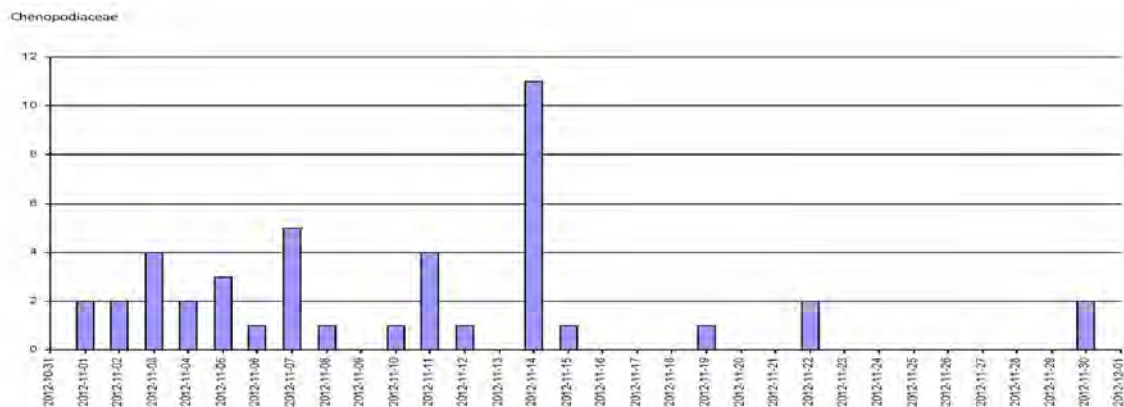


Fig. 82 Total pollen counts Chenopodiaceae November 2012

Chenopodiaceae pollen was present during the months of July until November in both years. The days of maximum pollen concentration were August 26, 2011 with a registered number of 130 Chenopodiaceae pollen grains and August 18, 2012 reaching a value of 213 pollen grains. However, probably there is not only one main pollen season with a concentration peak, but several peaks distributed over the second half of the year reaching peaks between 55 and 213 pollen grains per day. Those peaks could be located in both years in mid to late July, at the beginning of August, mid to late August and at the beginning of September.

3.2.4 Cupressaceae / Taxaceae

Representatives of the families Cupressaceae and Taxaceae were indexed as one group whereby no separation was performed between the cypress and the yew family. Both families belong to Conifers which are gymnosperms.

Profile – Cupressaceae



Widespread species:
Cupressus sempervirens
Cryptomeria sp.
Juniperus sp.

Fig. 83 Inflorescences of *Cryptomeria japonica*.

Pollen characterisation

Size:	small (10-25 μm): <i>Juniperus spp.</i> ; medium-sized (26-50 μm): <i>Cryptomeria japonica</i> , <i>Cupressus sempervirens</i>
Polarity:	isopolar or heteropolar
Shape:	spheroidal in equatorial view, circular in polar view
Aperture number:	inaperturate or 1
Aperture type:	ulcus or leptoma
Ornamentation:	granulate
Flowering period:	March – July

References: PALDAT [accessed 2013-11-26], FISCHER et al. 2005

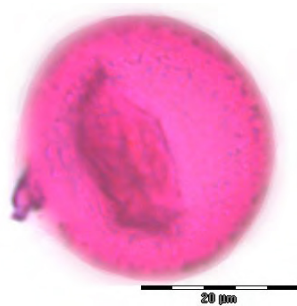


Fig. 84 *Cryptomeria japonica* pollen grain (pure culture), fuchsin-stain.

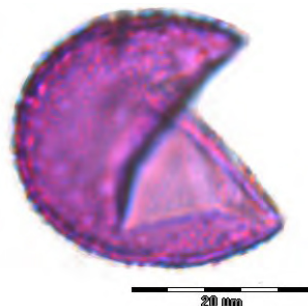


Fig. 85 *Cupressaceae/ Taxaceae* pollen grain in the preparation on 2011-09-04.

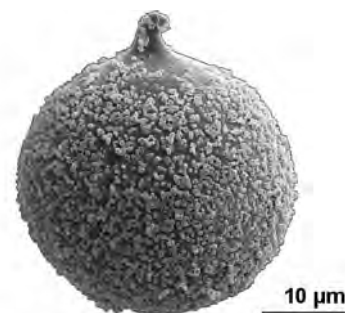


Fig. 86 *Cryptomeria japonica* pollen grain in SEM, equatorial view.

Profile – *Taxus baccata* (Taxaceae)



Fig. 87 Flowers of *Taxus baccata*.

Pollen characterisation

Size:	small (10-25 μm)
Polarity:	heteropolar or isopolar
Shape:	elliptic in equatorial view
Aperture number:	inaperturate
Aperture type:	leptoma
Ornamentation:	psilate in LM, granulate in SEM
Flowering period:	February – April

References: PALDAT [accessed 2013-11-26], FISCHER et al. 2005



Fig. 88 *Taxus baccata* pollen grain (pure culture), fuchsin-stain.

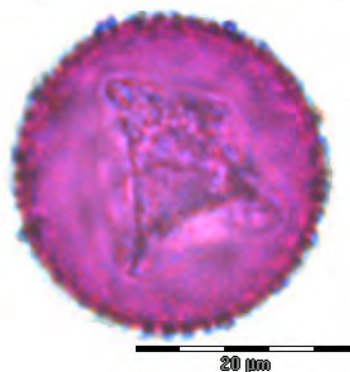


Fig. 89 Cupressaceae/Taxaceae pollen grain in the slide preparation on 2011-07-24.

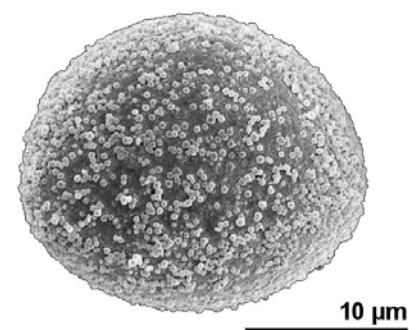


Fig. 90 *Taxus baccata* pollen grain in SEM.

Cupressaceae pollen grains are medium-sized (26-50 μm) cf. in *Cryptomeria japonica* or *Cupressus sempervirens*, but can also be small (10-25 μm) like in

Juniperus spp. The ornamentation of the grains is indistinct and often Ubisch bodies are adhering to the pollen surface resembling ornamenting elements. In the cypress family, usually an ulcus (often inconspicuous) or a leptoma is present which is characteristic for the pollen of gymnosperms. Inaperturate pollen grains may also occur, as in *Cupressus sempervirens*. When the pollen grain hydrates (before germination), the exine ruptures near the papilla, so that the protoplast becomes isolated. This produces a characteristic form that resembles two wedge shaped pieces (see also Fig. 85) [HESSE et. al 2009, PALDAT, 2013-11-26]. The features mentioned above are typical of Cupressaceae pollen and make it quite easy to recognize it. Cypress pollen can be heteropolar or isopolar; it has a spheroidal shape in equatorial view and a circular in polar view [PALDAT, 2013-11-26].

As an example given of the Taxaceae family, *Taxus baccata* pollen is small (10-25 µm) and shaped elliptic in equatorial view. The pollen grains are inaperturate, while their ornamentation is granulate [PALDAT, 2013-11-26]. Taxaceae pollen is very similar to Cupressaceae pollen.

The flowering season of *Juniperus spp.* lasts from April to July, *Chamaecyparis spp.* flowers from March to April, whereas *Thuja sp.* has a blooming period lasting from April to May. *Taxus baccata* (Taxaceae) has its blooming period from February to April [FISCHER et al. 2005].

Results of the pollen counts

2011

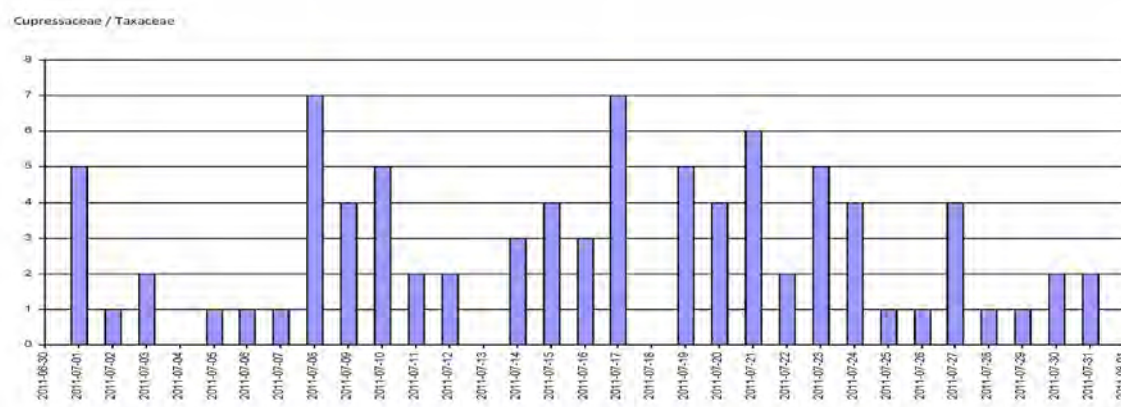


Fig. 91 Total pollen counts Cupressaceae / Taxaceae July 2011

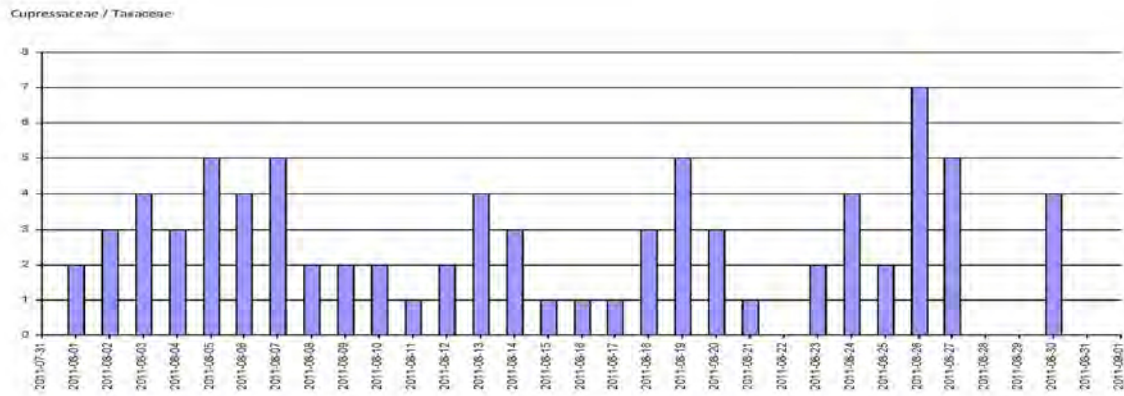


Fig. 92 Total pollen counts Cupressaceae / Taxaceae August 2011

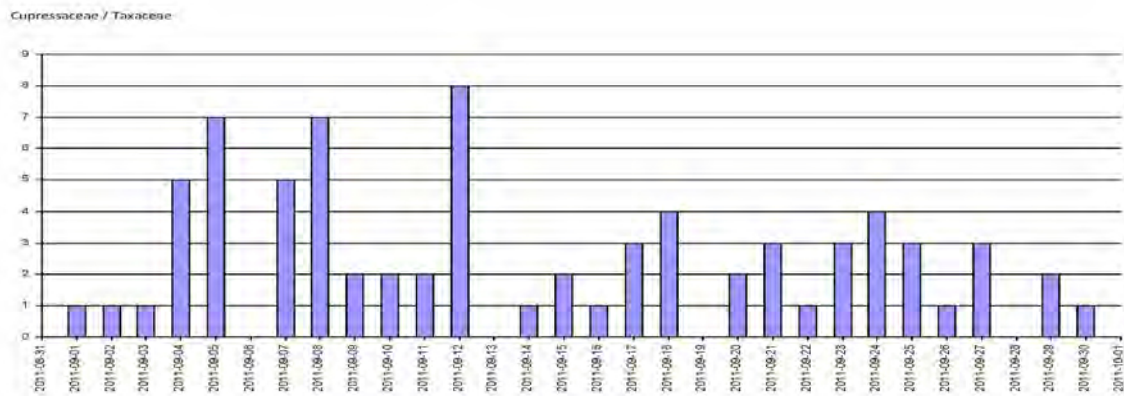


Fig. 93 Total pollen counts Cupressaceae / Taxaceae September 2011

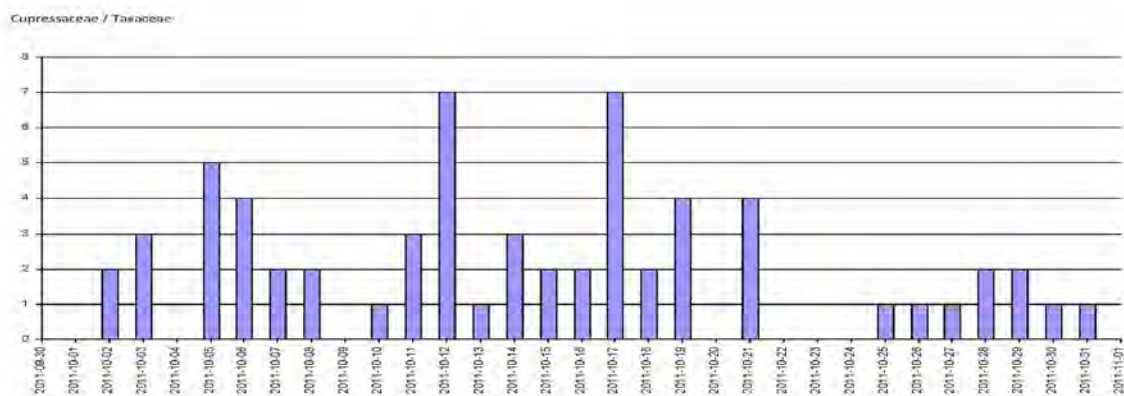


Fig. 94 Total pollen counts Cupressaceae / Taxaceae October 2011

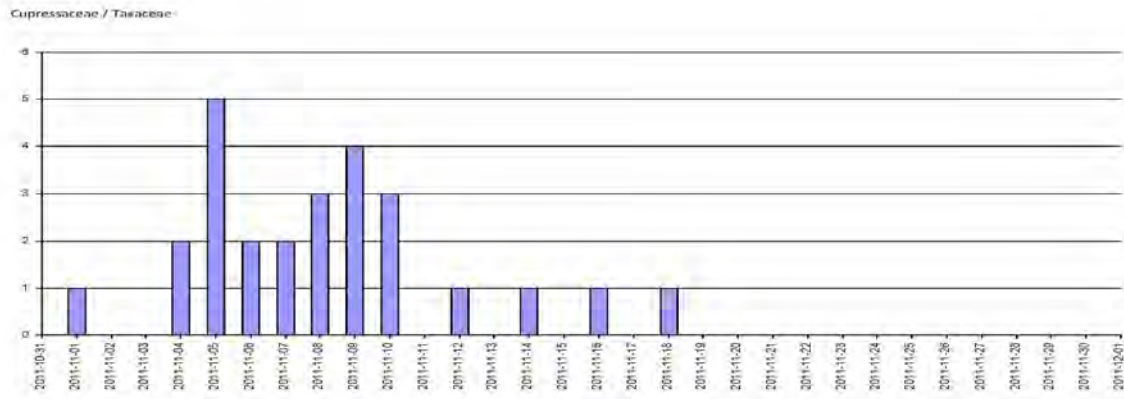


Fig. 95 Total pollen counts Cupressaceae / Taxaceae November 2011

2012

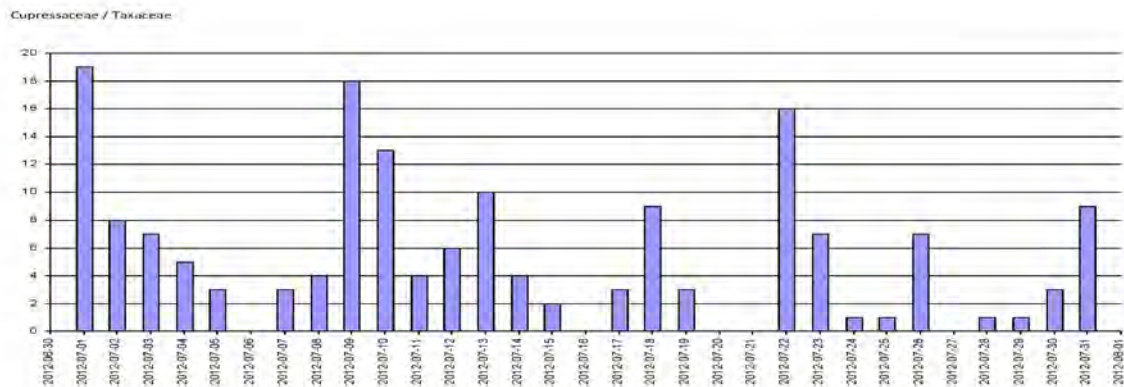


Fig. 96 Total pollen counts Cupressaceae / Taxaceae July 2012

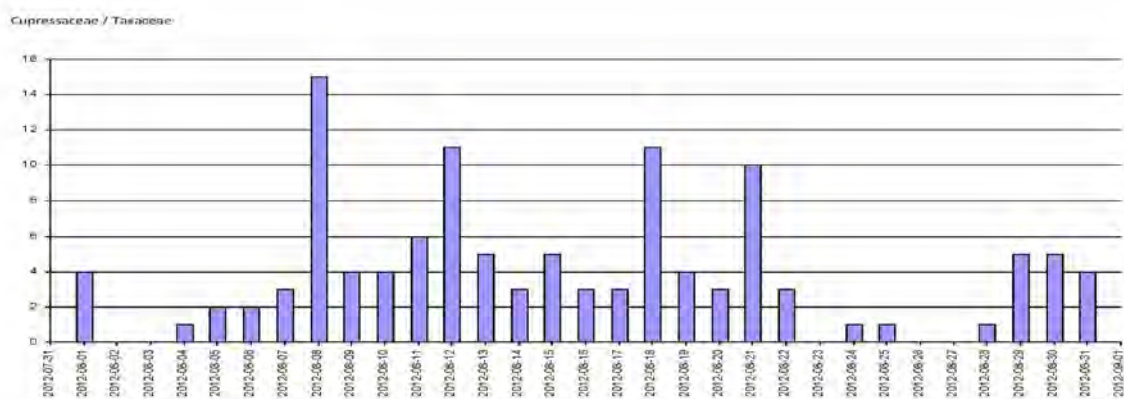


Fig. 97 Total pollen counts Cupressaceae / Taxaceae August 2012

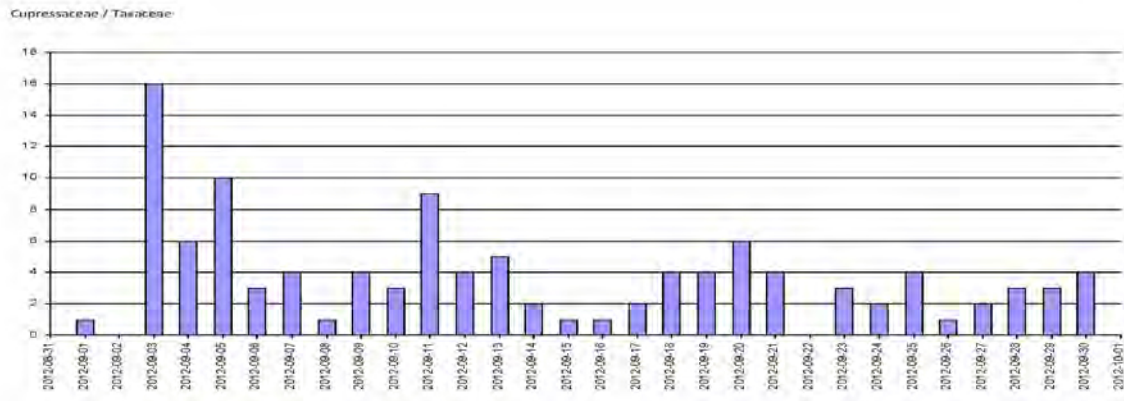


Fig. 98 Total pollen counts Cupressaceae / Taxaceae September 2012

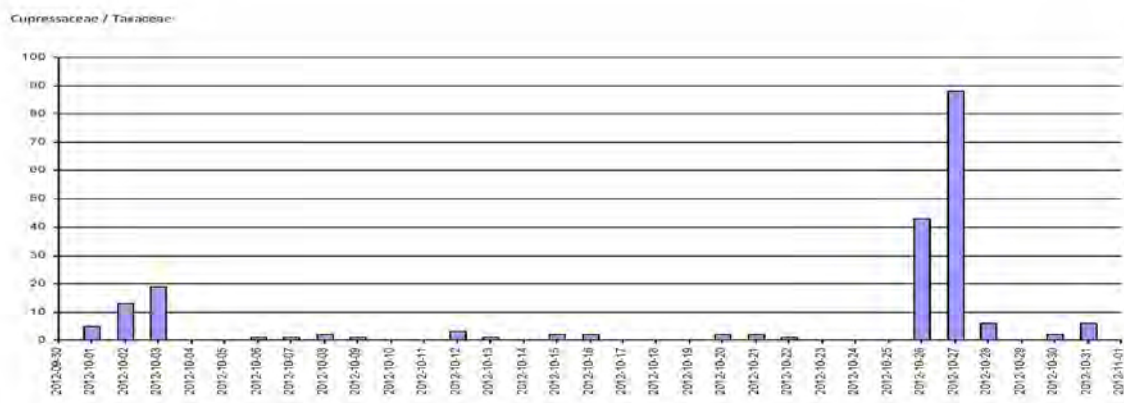


Fig. 99 Total pollen counts Cupressaceae / Taxaceae October 2012

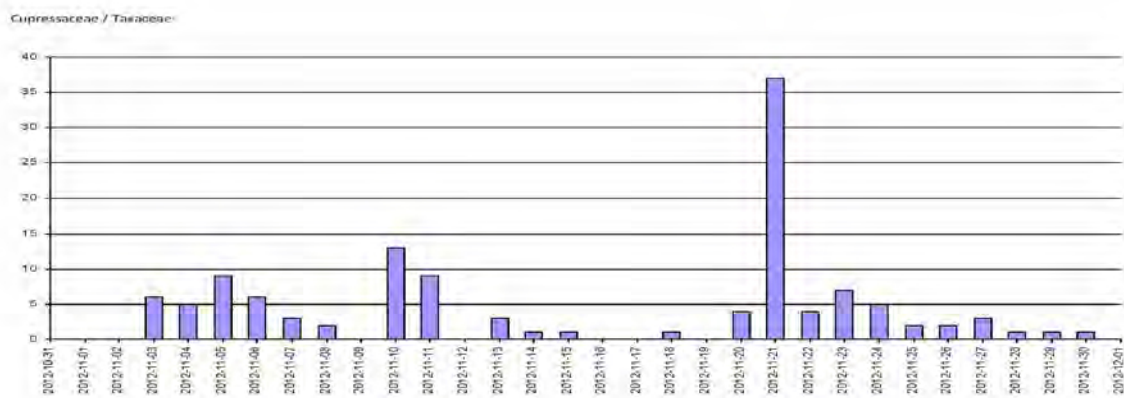


Fig. 100 Total pollen counts Cupressaceae / Taxaceae November 2012

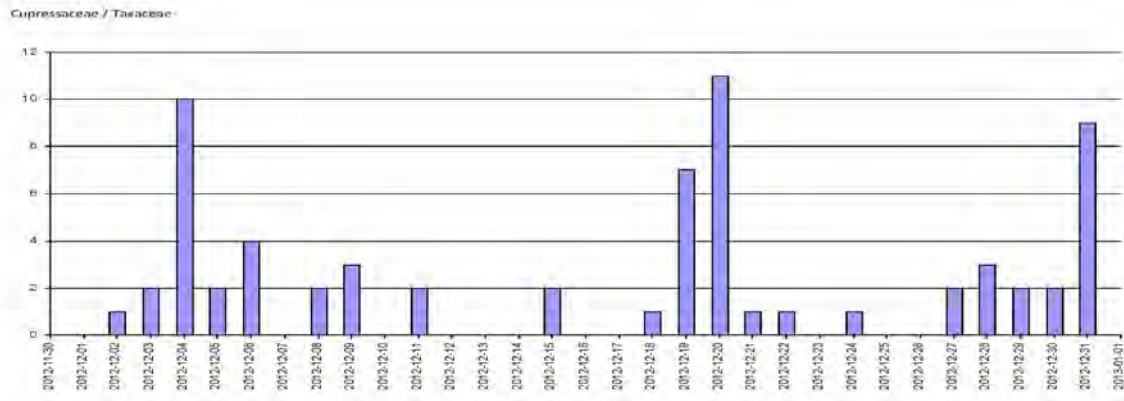


Fig. 101 Total pollen counts Cupressaceae / Taxaceae December 2012

In both years of the investigation there was a low but constant Cupressaceae/Taxaceae pollen concentration in the air during the months July until December. It is striking that there are two sudden peaks in the year 2012 – one peak on October 27 reaching a maximum daily concentration of 88 pollen grains and the other peak on November 21 with a number of 37 pollen grains.

3.2.5 Pinaceae

Profile



Fig. 102 Flowers of *Pinus nigra*.

Widespread species:

Larix decidua

Pinus nigra

Pinus sylvestris

Pinus mugo

Abies alba

Picea abies

Pollen characterisation

Pollen class:	saccate; exception: <i>Larix decidua</i>
Size:	large (51-100 µm) or very large (>100 µm)
Polarity:	heteropolar
Shape:	bisaccate, oblate in equatorial view, elliptic in polar view; exception <i>L. decidua</i> : elliptic in equatorial and polar view
Aperture number:	1; exception <i>L. decidua</i> : inaperturate
Aperture type:	leptoma
Ornamentation:	psilate, verrucate or unknown.
Flowering period:	April – July; <i>Cedrus sp.</i> : October

References: PALDAT [accessed 2013-12-05], FISCHER et al. 2005

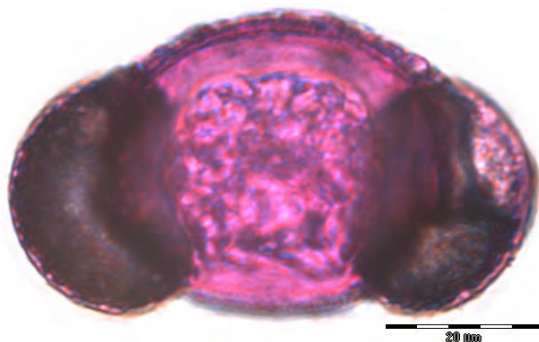


Fig. 103 *Pinaceae* pollen grain in the slide preparation on 2011-07-09, polar distal view.

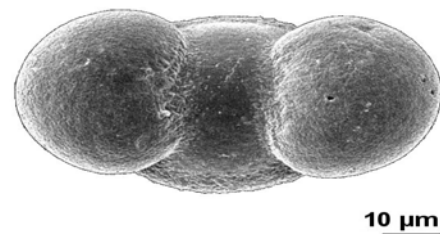


Fig. 104 *Pinus nigra* pollen grain in SEM, polar distal view.

The pine family is belonging to the Conifers and is therefor ranked among gymnosperms, like Cupressaceae and Taxaceae.

Pinaceae pollen grains are saccate which means that they are composed of a corpus displaying “the central body of saccate pollen grains” and a saccus that is an expansion of the exine sticking out of the corpus and forming an air sac. In the pine family, usually two sacchi are present, in some species even three. The area on the proximal side of the corpus is called cappa, on the distal side the leptoma represents a thinned region [HESSE et al. 2009]. A further characteristic of pine pollen is their large (51-100 μm) or very large ($>100 \mu\text{m}$) size. Moreover, the ornamentation of those heteropolar grains is psilate or verrucate. The pollen grains are often described as oblate in equatorial view and elliptic in polar view or simply irregular which is a special feature of saccate pollen grains already described above. An exception is represented by *Larix decidua* pollen which has no sacchi, but is also heteropolar. *L. decidua* has inaperturate and large (51-100 μm) grains that are shaped elliptic both in equatorial as in polar view. The ornamentation is described as psilate under optical microscope [PALDAT, 2013-12-05]. Some Pinaceae pollen grains show a “Y-shaped bulge”, the so-called impression mark on the proximal pole [HARLEY 1999].

Early flowering Pinaceae include for instance *Pinus nigra* or *Picea abies* that flower from May until June, but also *Larix sp.* or *Pseudotsuga sp.* (douglas fir) that both start blooming already in April. Late flowering Pinaceae such as *Pinus mugo* are blooming from June until July. *Cedrus sp.*, however, has its blooming time not until October [FISCHER et al. 2005].

Results of the pollen counts

2011

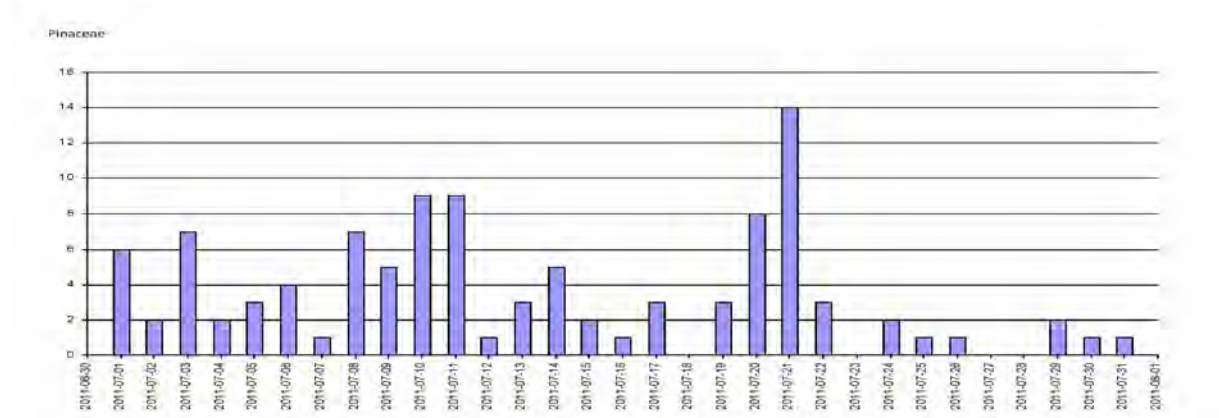


Fig. 105 Total pollen counts Pinaceae July 2011

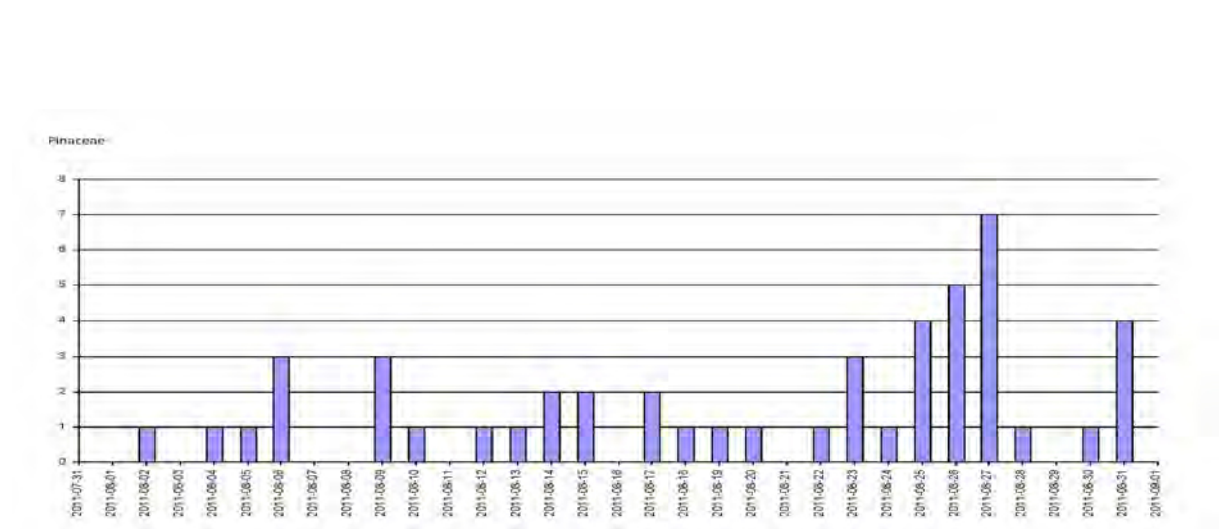


Fig. 106 Total pollen counts Pinaceae August 2011

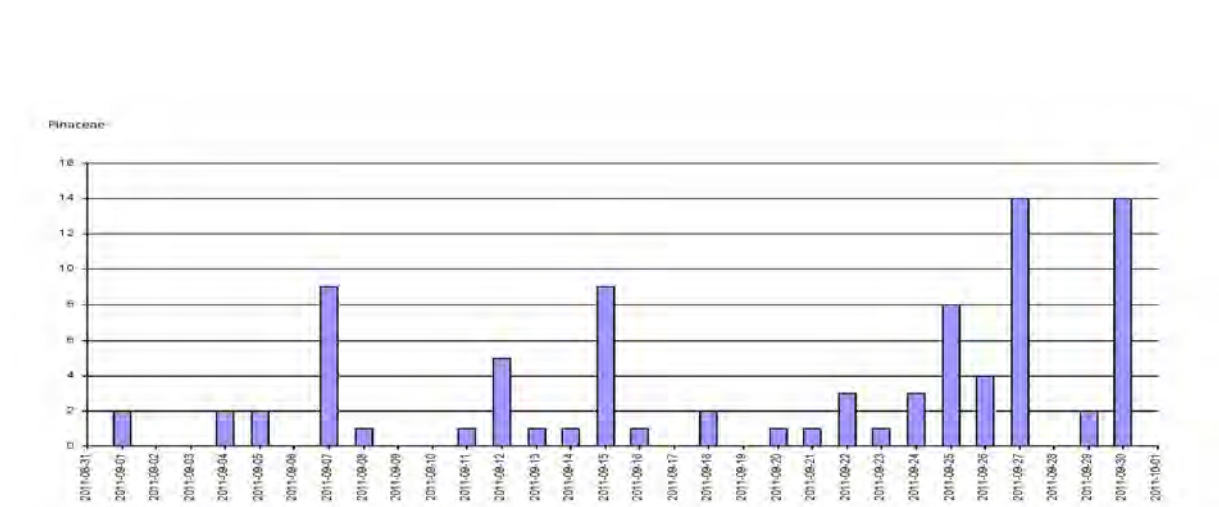


Fig. 107 Total pollen counts Pinaceae September 2011

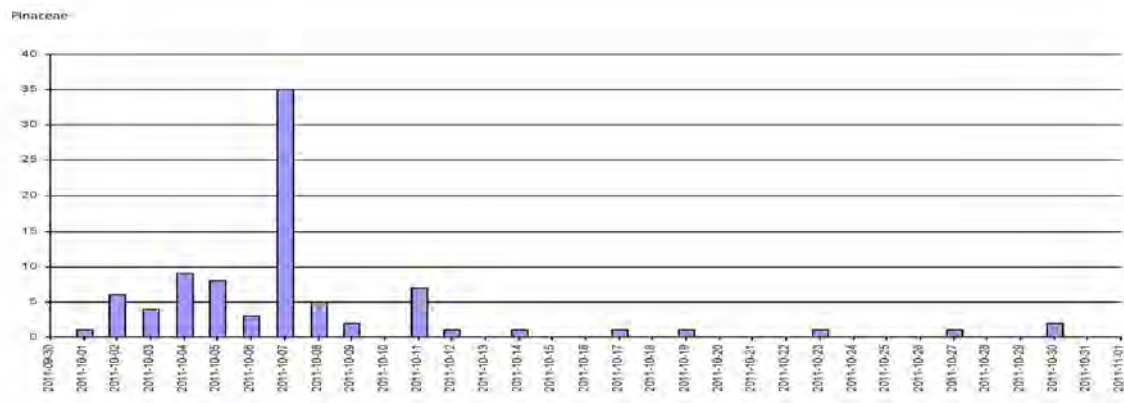


Fig. 108 Total pollen counts Pinaceae October 2011

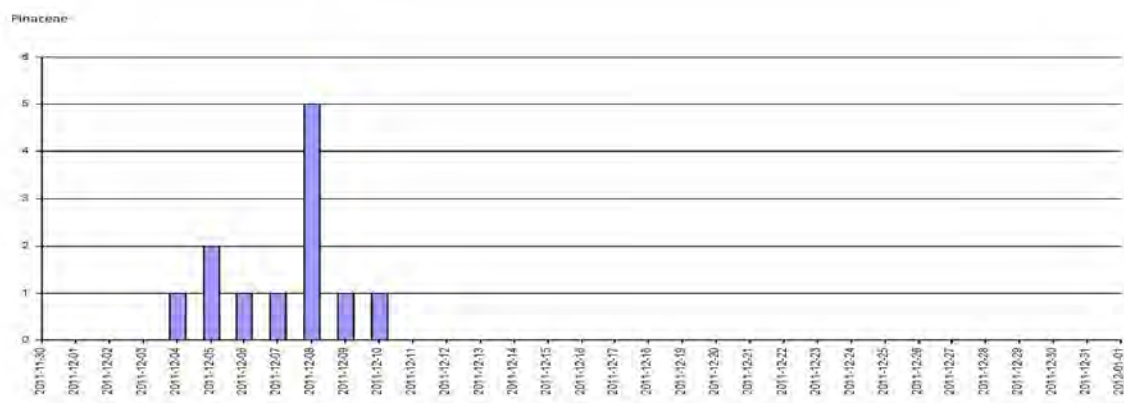


Fig. 109 Total pollen counts Pinaceae December 2011

2012

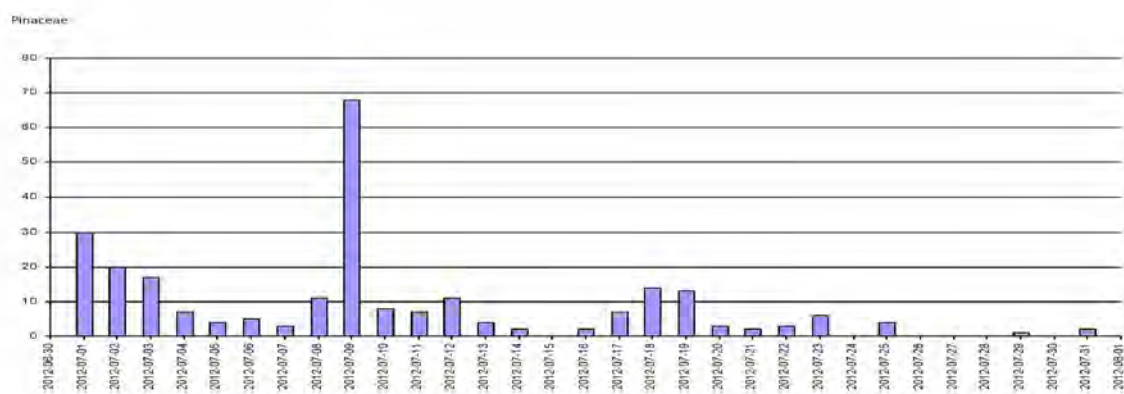


Fig. 110 Total pollen counts Pinaceae July 2012

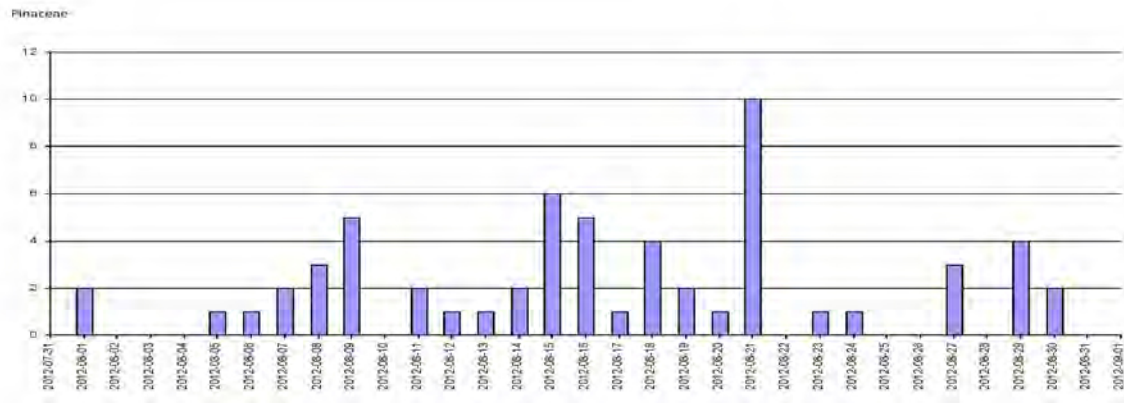


Fig. 111 Total pollen counts Pinaceae August 2012

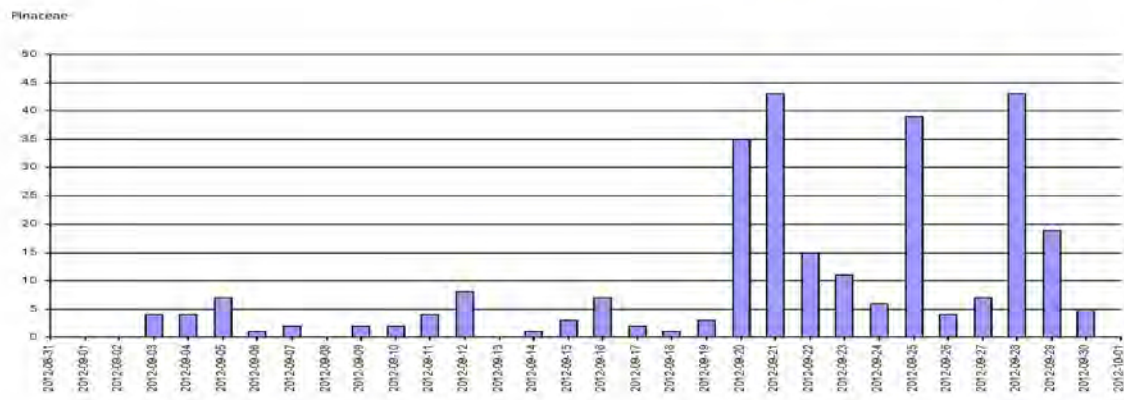


Fig. 112 Total pollen counts Pinaceae September 2012

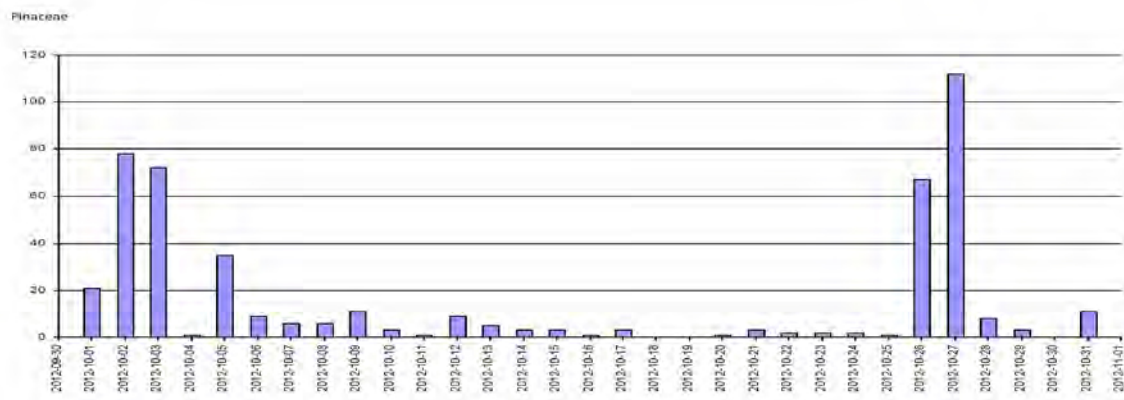


Fig. 113 Total pollen counts Pinaceae October 2012

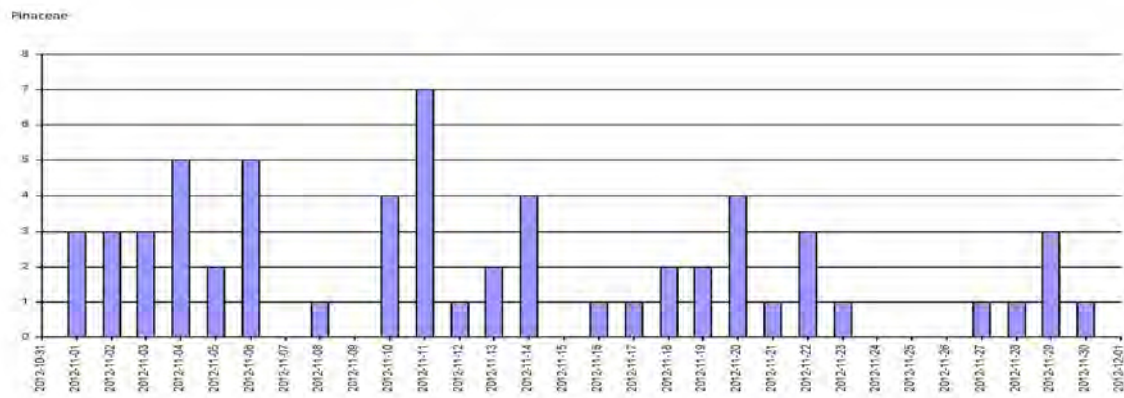


Fig. 114 Total pollen counts Pinaceae November 2012

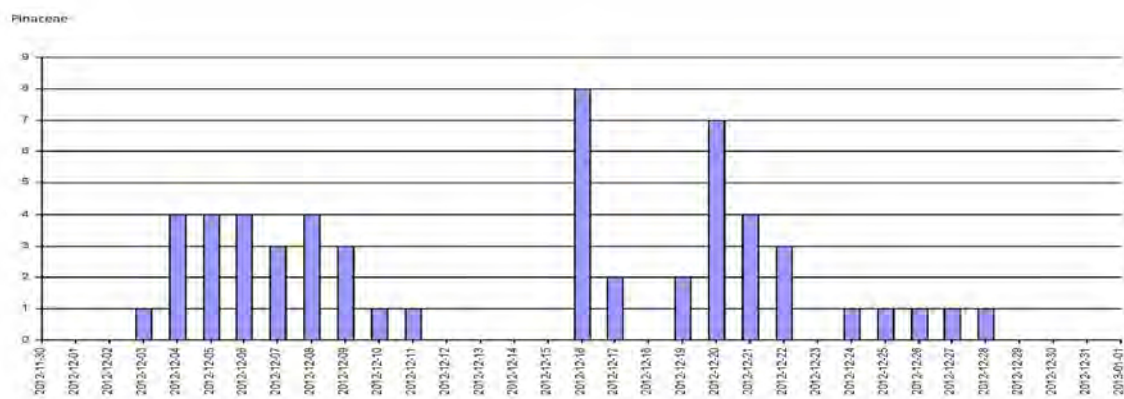


Fig. 115 Total pollen counts Pinaceae December 2012

In both years, there was no month from July until December without any pine pollen, although airborne Pinaceae pollen concentration decreased in November and December. There was a higher incidence of Pinaceae pollen at the end of September 2012 than in 2011.

In 2011 as well as in 2012, a sudden rise in the Pinaceae pollen concentration in October can be seen in the diagrams. In 2011, this October peak is at its maximum on October 7 with 35 pollen grains. In 2012, however, this peak appears nearly three weeks later than in 2011, on October 27 with 112 counted pollen grains on this day.

3.2.6 *Plantago* spp. (Plantaginaceae)

Profile



Widespread species:
Plantago lanceolata

Fig. 116 Inflorescence of *Plantago lanceolata*.

Pollen characterisation

Size:	small (10-25 μm) or medium (26-50 μm)
Polarity:	isopolar
Shape:	spheroidal in equatorial view, circular in polar view
Aperture number:	>6 (pantoaperturate)
Aperture type:	porus
Aperture peculiarities:	mostly aperture membrane ornamented or operculate or annulate
Ornamentation:	verrucate
Flowering period:	May – September (<i>P. lanceolata</i> , <i>P. media</i>)

References: PALDAT [accessed 2013-11-27], FISCHER et al. 2005

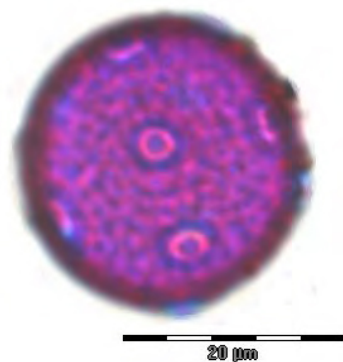


Fig. 117 *Plantago* spp. pollen grain in the slide preparation on 2011-07-24.

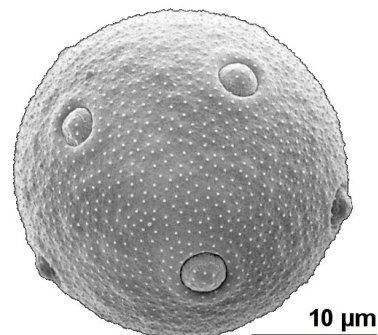


Fig. 118 *Plantago lanceolata* pollen grain in SEM.

Plantago pollen can be small- (10-25 μm) to medium-sized (26-50 μm) with a spheroidal shape in equatorial view, while the outline appears circular in polar view. The isopolar pollen grains are pantoporate with 6 to 14 evenly distributed pori. The aperture membrane is often ornamented, or shows an operculum (i. e. *P. lanceolata*) or an annulus (i. e. *P. maritima*). The ornamentation of the pollen grain is verrucate [KOLLAR 1983, PALDAT, 2013-11-27].

The flowering season of *P. lanceolata* and *P. media* lasts from May until September, whereas other *Plantago* species have very different flowering periods, some starting already in April (e. g. *P. tenuiflora*), and some lasting until October (e.g. *P. maritima*) [FISCHER et al. 2005].

Results of the pollen counts

2011

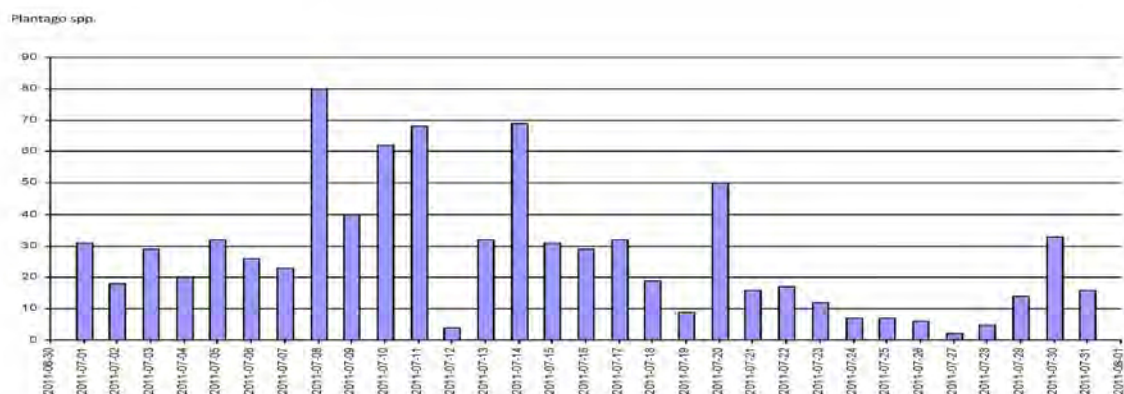


Fig. 119 Total pollen counts *Plantago* spp. July 2011

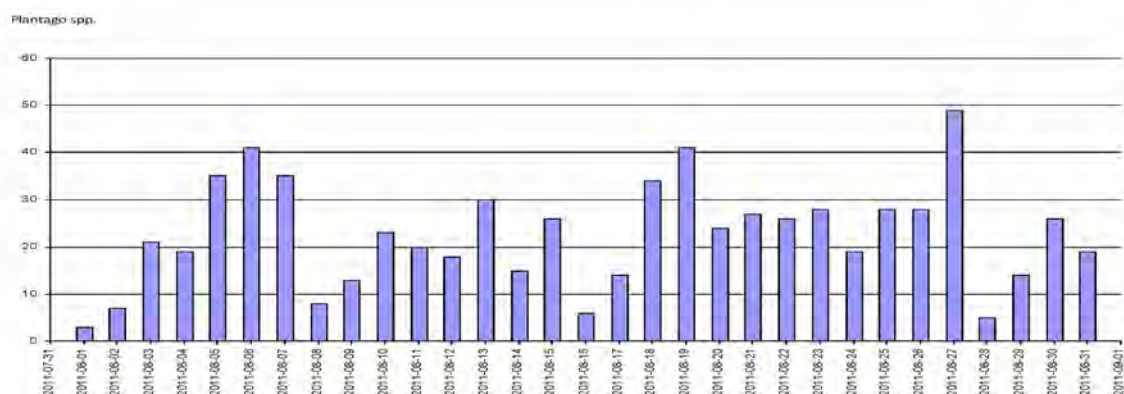


Fig. 120 Total pollen counts *Plantago* spp. August 2011

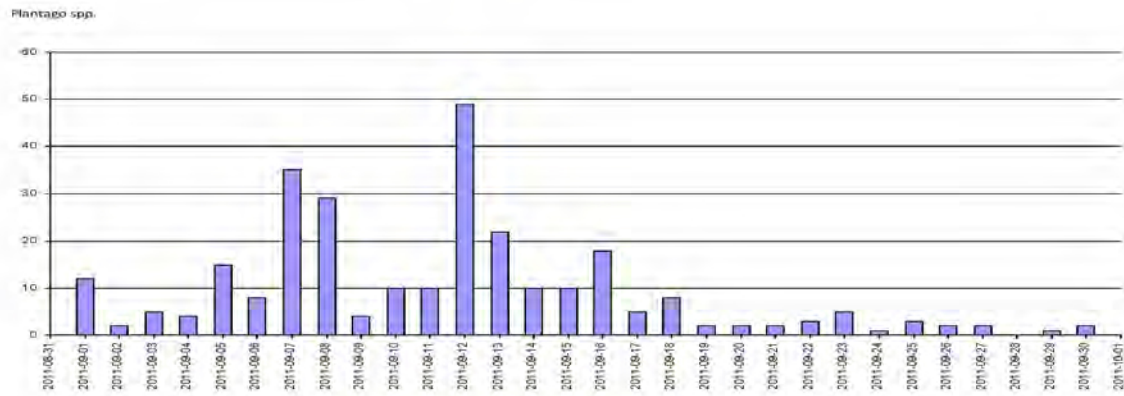


Fig. 121 Total pollen counts *Plantago spp.* September 2011

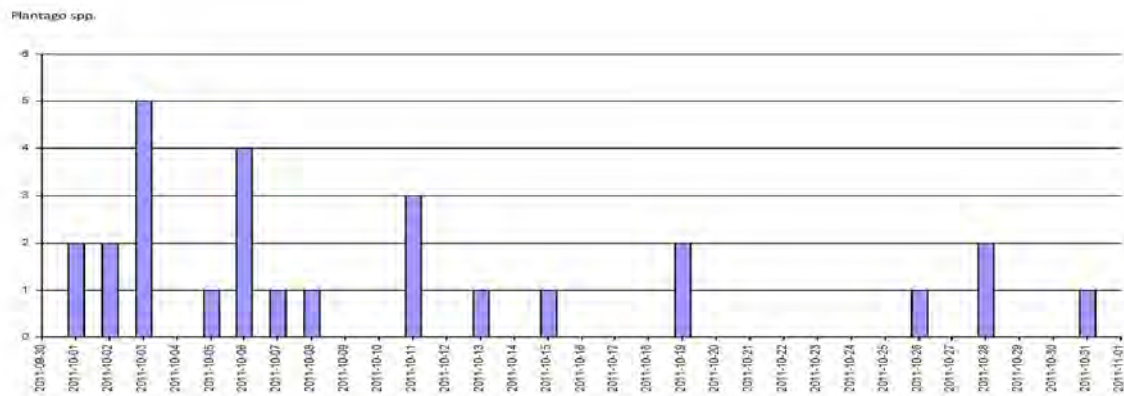


Fig. 122 Total pollen counts *Plantago spp.* October 2011

2012

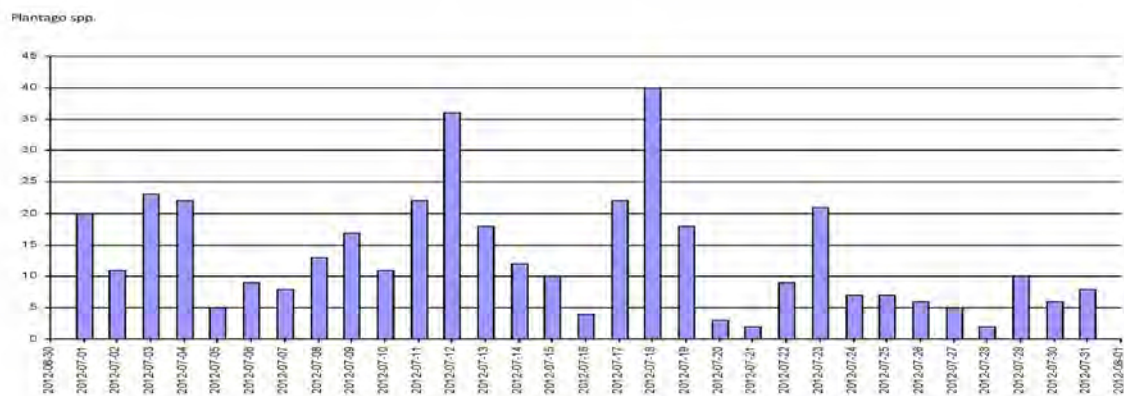


Fig. 123 Total pollen counts *Plantago spp.* July 2012

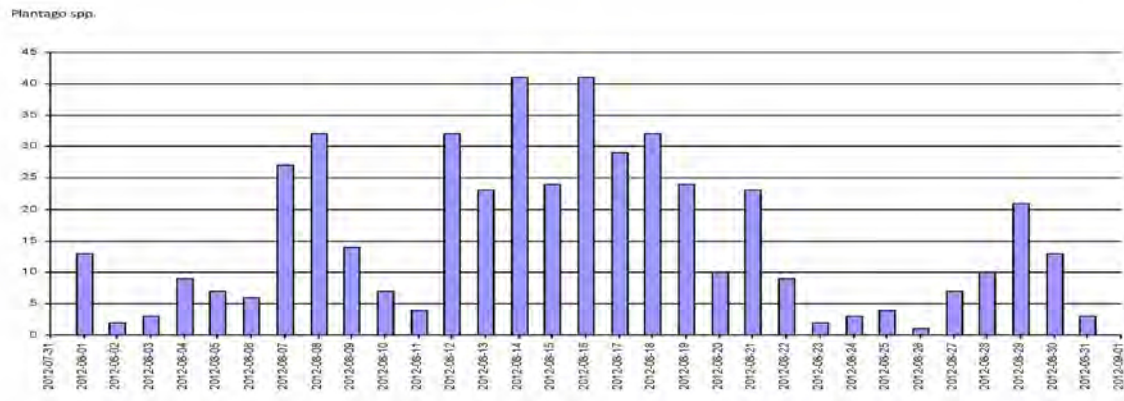


Fig. 124 Total pollen counts *Plantago spp.* August 2012

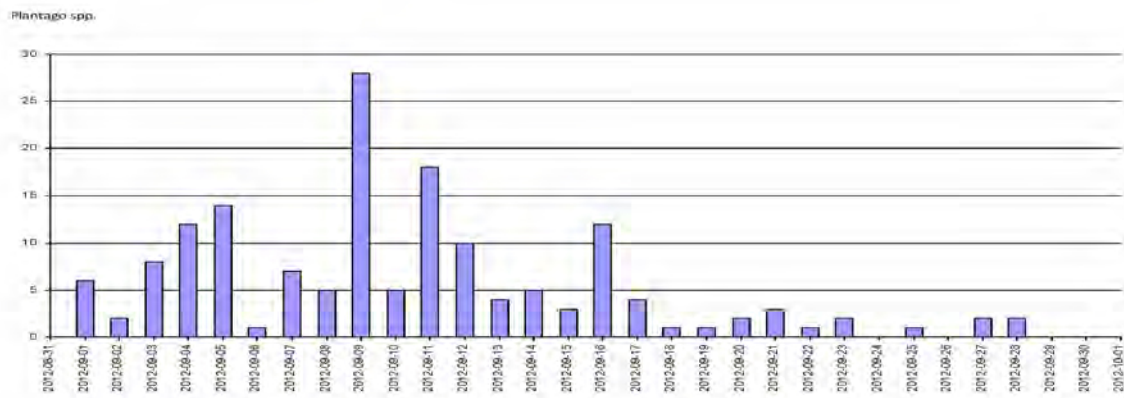


Fig. 125 Total pollen counts *Plantago spp.* September 2012

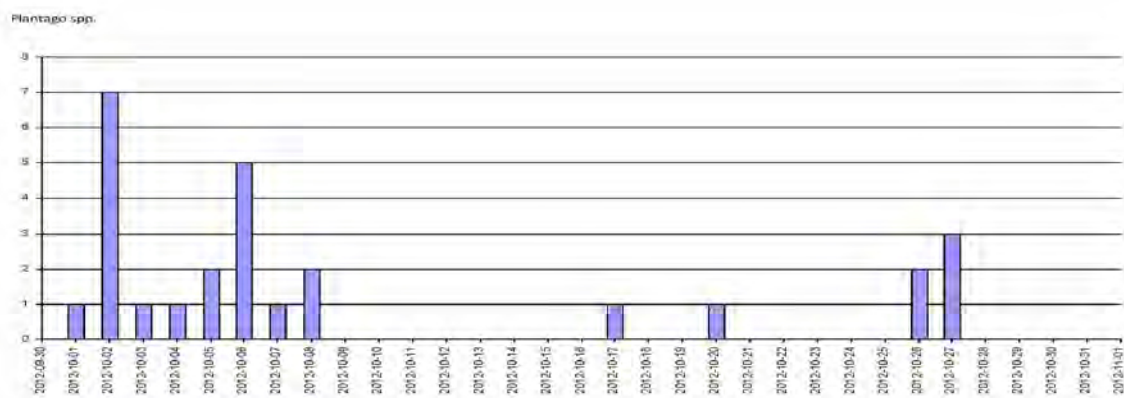


Fig. 126 Total pollen counts *Plantago spp.* October 2012

The pollen of *Plantago spp.* was present from July until October in both years, prevailing in July. A significant peak cannot be located. The highest pollen counts were 80 pollen grains in early July 2011 and 41 pollen grains in mid-August 2012.

3.2.7 Poaceae

Profile



Widespread species:

Dactylis glomerata

Phleum pratense

Alopecurus pratensis

Secale cereale

Zea mays

Fig. 127 Flowers of *Dactylis glomerata*.

Pollen characterisation

Size: mostly medium (26-50 µm), cereals: large (51-100 µm)

Polarity: heteropolar to isopolar

Shape: prolate-spheroidal in equatorial view, circular in polar view

Aperture number: 1

Aperture type: ulcerate

Aperture peculiarities: mostly operculate and/or annulus

Ornamentation: psilate

Flowering period: May – July / August (most grasses)

References: PALDAT [accessed 2013-12-03], FISCHER et al. 2005

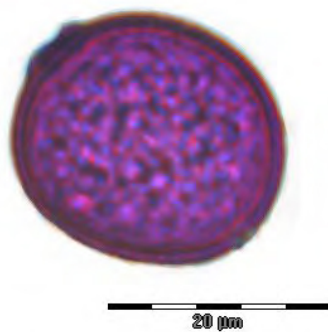


Fig. 128 Poaceae pollen grain in the slide preparation on 2011-09-04, equatorial view.

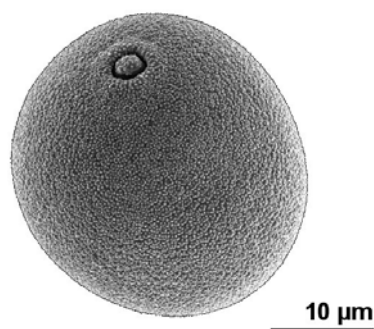


Fig. 129 *Dactylis glomerata* pollen grain in SEM, polar view (distal).

Most Poaceae pollen grains are medium-sized (26-50 µm) apart from *Poa annua*, a small (10-25 µm) representative and some types of cereals that attract attention by their large (51-100 µm) grains such as *Secale cereale*, *Triticum aestivum* or *Zea mays*. The polarity is heteropolar to isopolar while the shape of the grass pollen grains is prolate to spheroidal in equatorial view and circular in polar view. All of them are ulcerate having an operculum and usually an annulus, too. Their ornamentation is mostly psilate under optical microscope [PALDAT, 2013-12-03].

The pollen season for most grasses starts in May lasting until July or August [FISCHER et al. 2005].

Results of the pollen counts

2011

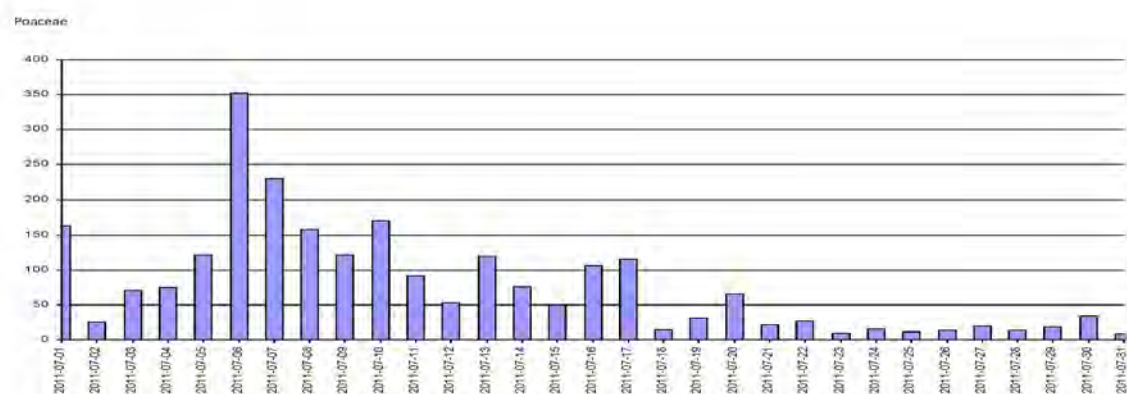


Fig. 130 Total pollen counts Poaceae July 2011

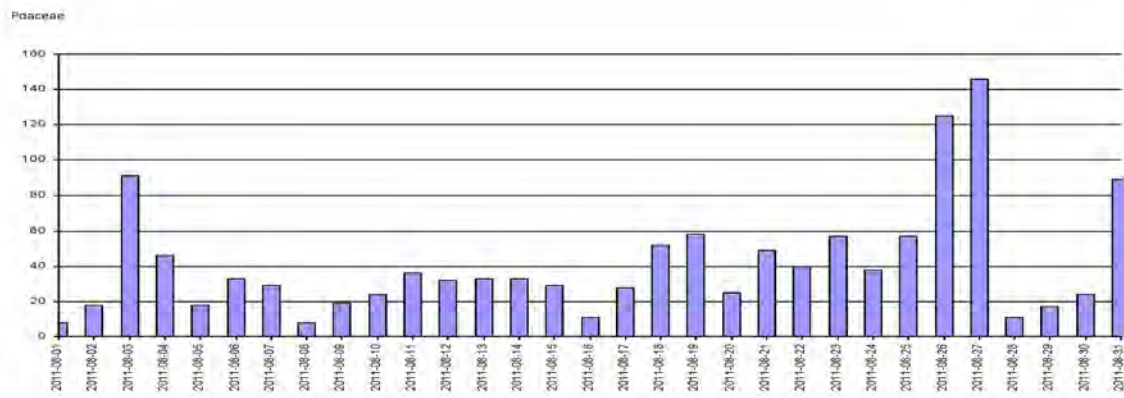


Fig. 131 Total pollen counts Poaceae August 2011

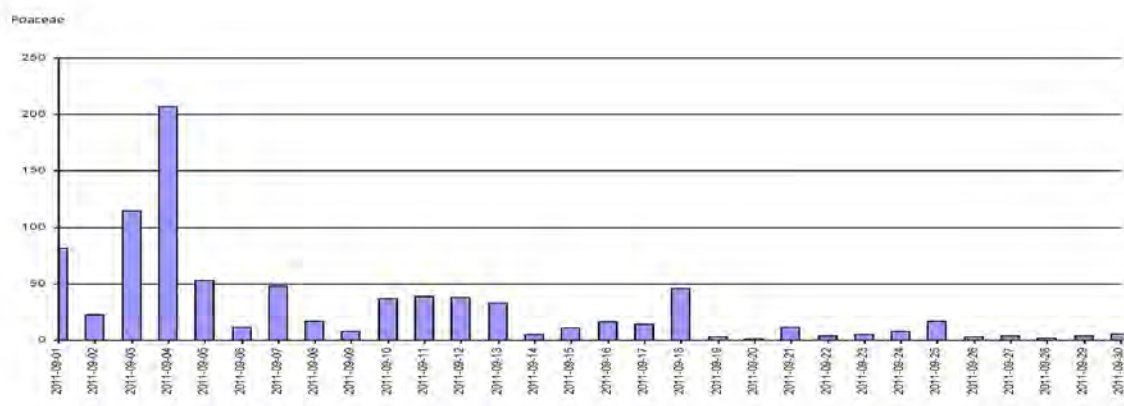


Fig. 132 Total pollen counts Poaceae September 2011

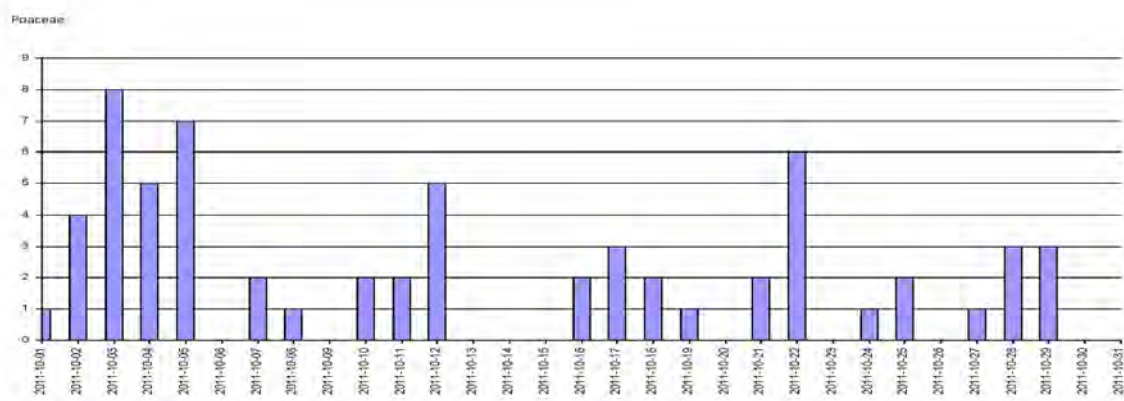


Fig. 133 Total pollen counts Poaceae October 2011

2012

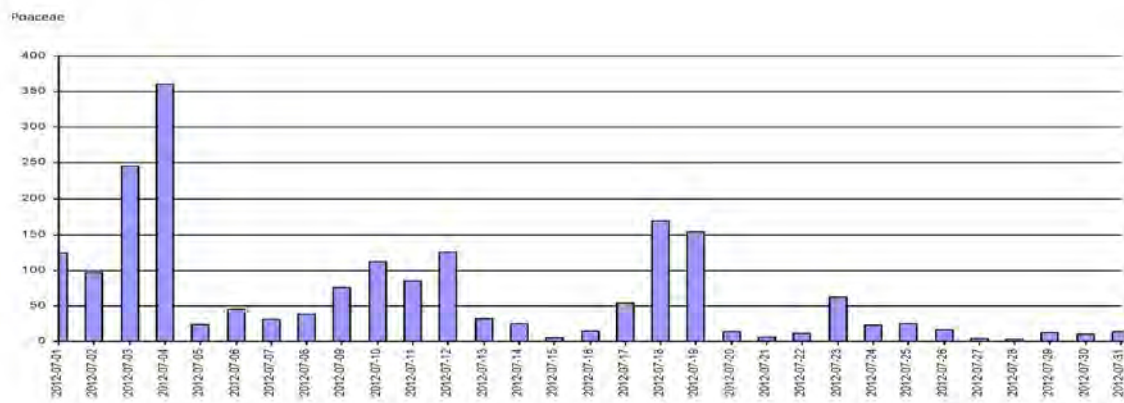


Fig. 134 Total pollen counts Poaceae July 2012

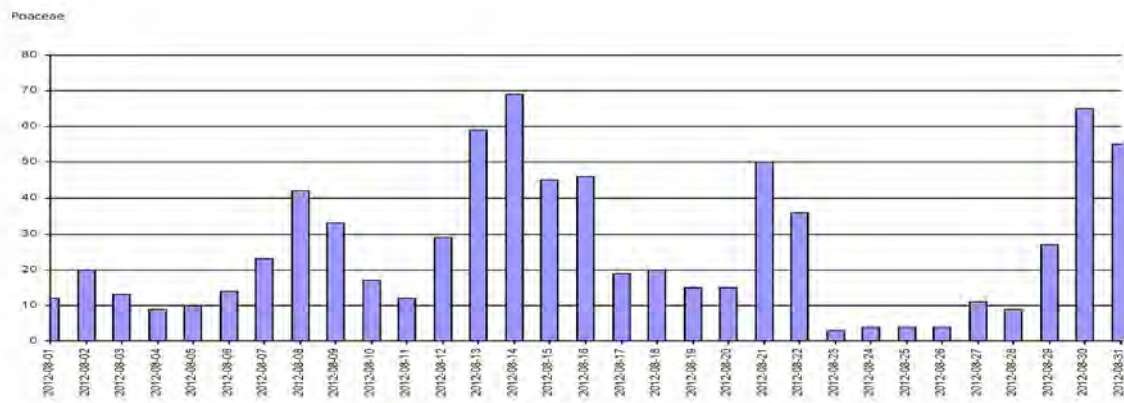


Fig. 135 Total pollen counts Poaceae August 2012

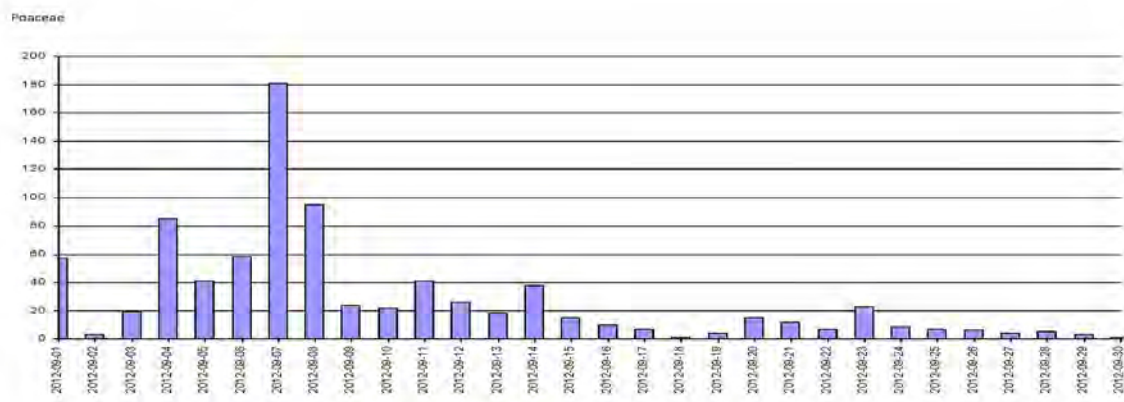


Fig. 136 Total pollen counts Poaceae September 2012

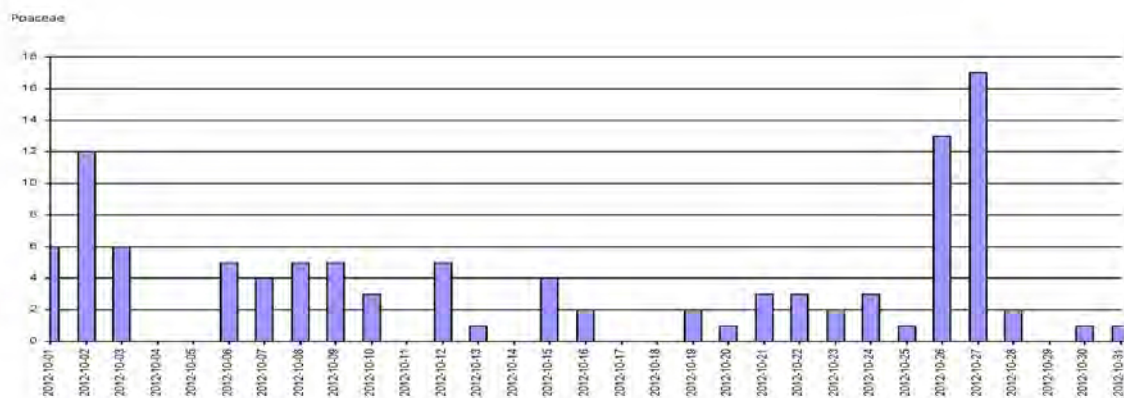


Fig. 137 Total pollen counts Poaceae October 2012

In both years, grass pollen prevails in July, August and September, having several peaks. In 2011 the maximum was recorded on July 6 with a maximum daily concentration of 352 pollen grains whereas the maximum in 2012 on July 4 was about the same with 361 pollen grains. There can be seen other lower peaks in 2011 at the beginning and end of August and at the beginning of September. In 2012, those additional peaks can be located in mid- and end of August and at the beginning of September.

Moreover, large graminaceous pollen grains according to cereals were noticed on several days, for instance on 2011-08-06, 2011-08-18, 2011-08-27, 2012-07-19.

3.2.8 Urticaceae

Profile



Widespread species:

Parietaria officinalis

Parietaria judaica

Fig. 138 Flowers of *Parietaria officinalis*.

Pollen characterisation

Size:	small (10-25 µm)
Polarity:	isopolar
Shape:	oblate / spheroidal in equatorial view, circular in polar view
Aperture number:	2 – 5
Aperture type:	porate
Aperture peculiarities:	mostly operculate or annulate, some with oncus
Ornamentation:	psilate or unknown
Flowering period:	May or June to September or October

References: PALDAT [accessed 2013-11-28], FISCHER et al. 2005



Fig. 139 *Parietaria officinalis* pollen grain (pure culture), equatorial view, fuchsin-stain.

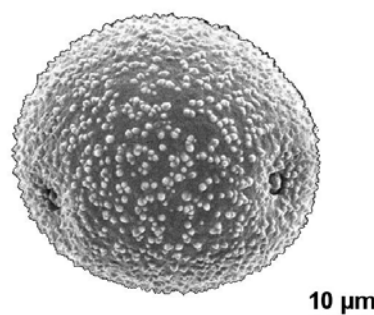


Fig. 140 *Parietaria officinalis* pollen grain in SEM, equatorial view.

The family Urticaceae in Austria consists of the two genera *Urtica* and *Parietaria*.

Urticaceae pollen grains are known for their small (10-25 µm) size. They are isopolar and can be shaped oblate or spheroidal in an equatorial view and circular in a polar view. The apertures of the grains are always porate, whereas the number of apertures ranges from 2 to 5. Both *Parietaria officinalis* and *Urtica dioica* are 3-porate.

In most cases they have aperture peculiarities like an operculum or annulus. *U. dioica* pollen shows an oncus and *P. officinalis* pollen has an oncus-like thickening below the aperture. The ornamentation seems psilate or indefinable under LM, from SEM investigations it is known that the ornamentation can be microechinate or, for some species, granulate [PALDAT, 2013-11-28].

The flowering period from *Urtica spp.* and *Parietaria spp.* extends from May or June to September or October [FISCHER et al. 2005].

Results of the pollen counts

2011

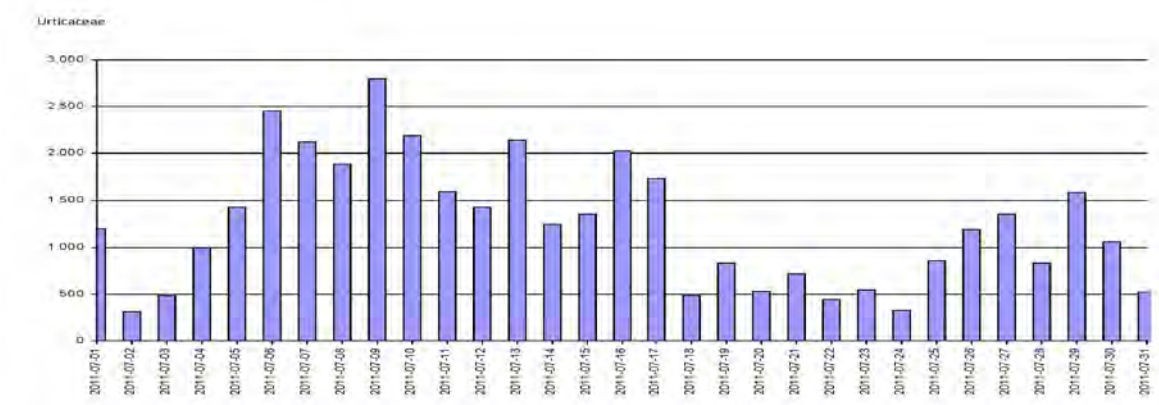


Fig. 141 Total pollen counts Urticaceae July 2011

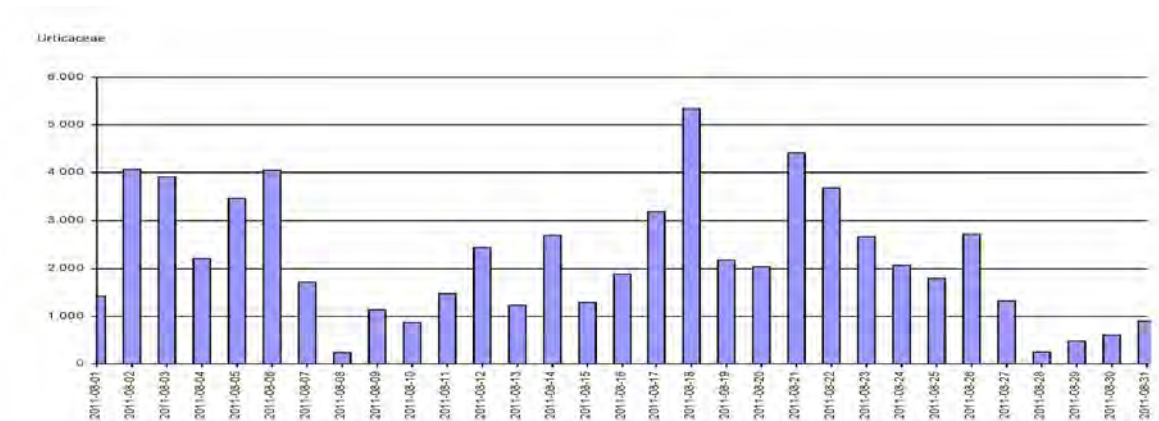


Fig. 142 Total pollen counts Urticaceae August 2011

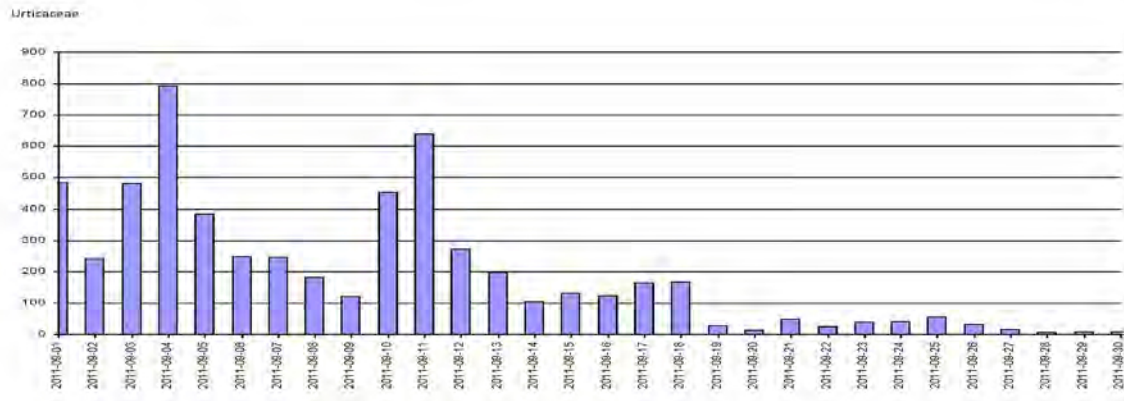


Fig. 143 Total pollen counts Urticaceae September 2011

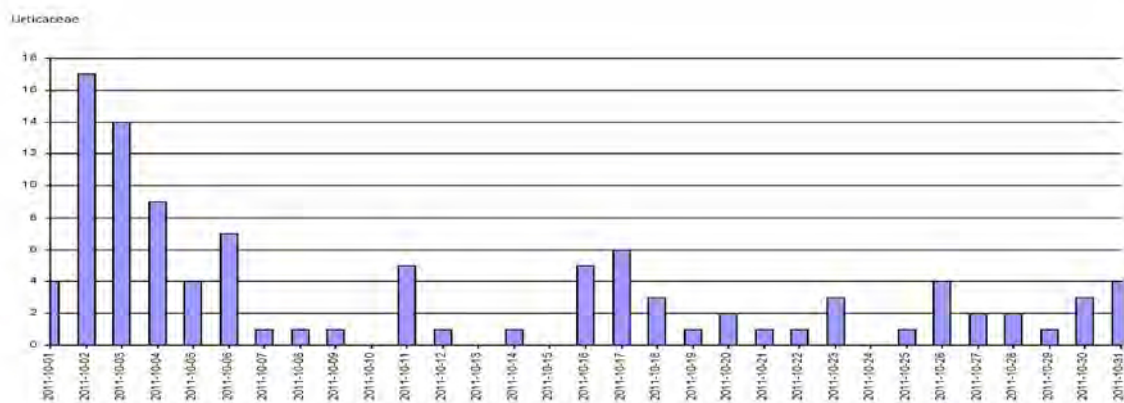


Fig. 144 Total pollen counts Urticaceae October 2011

2012

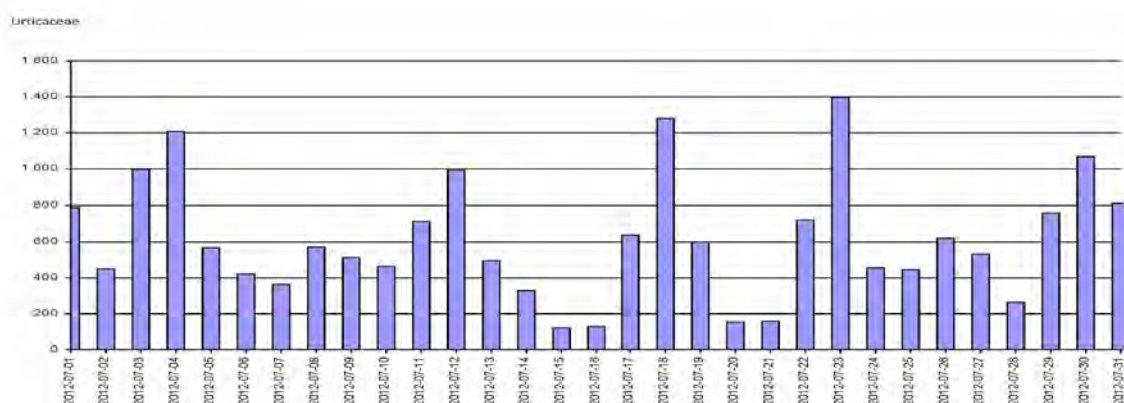


Fig. 145 Total pollen counts Urticaceae July 2012

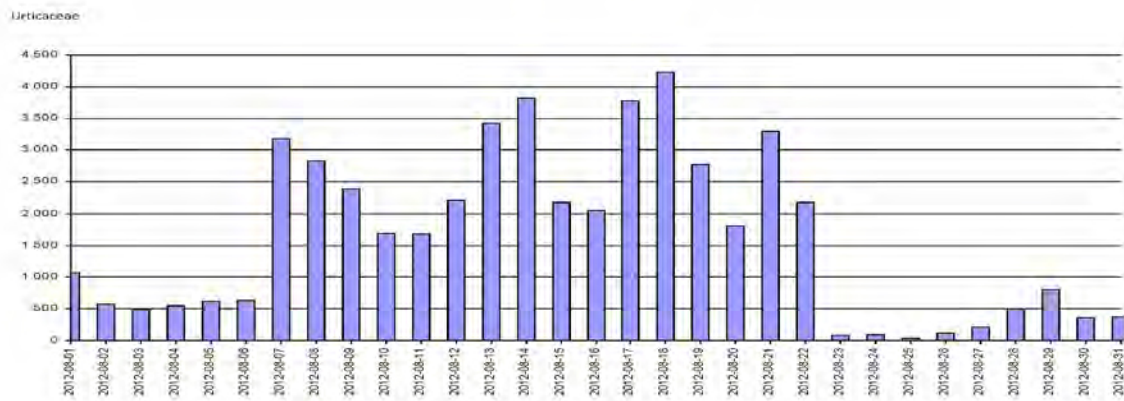


Fig. 146 Total pollen counts Urticaceae August 2012

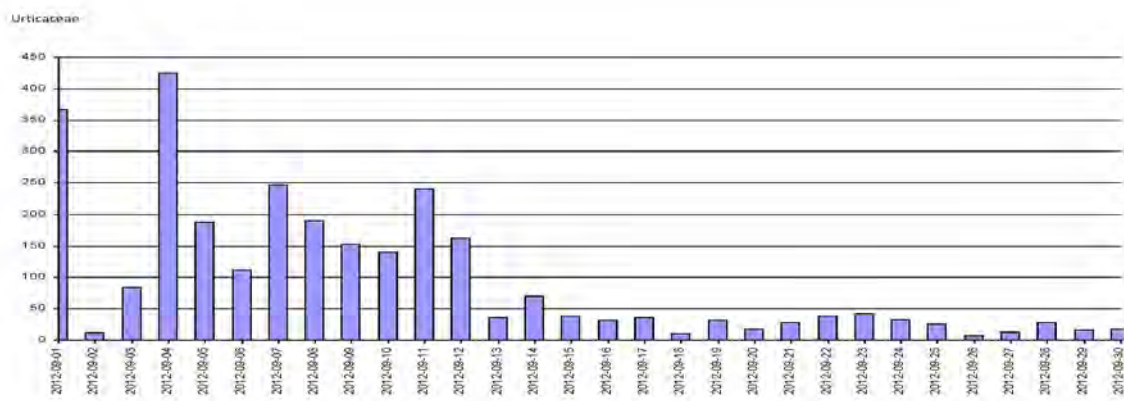


Fig. 147 Total pollen counts Urticaceae September 2012

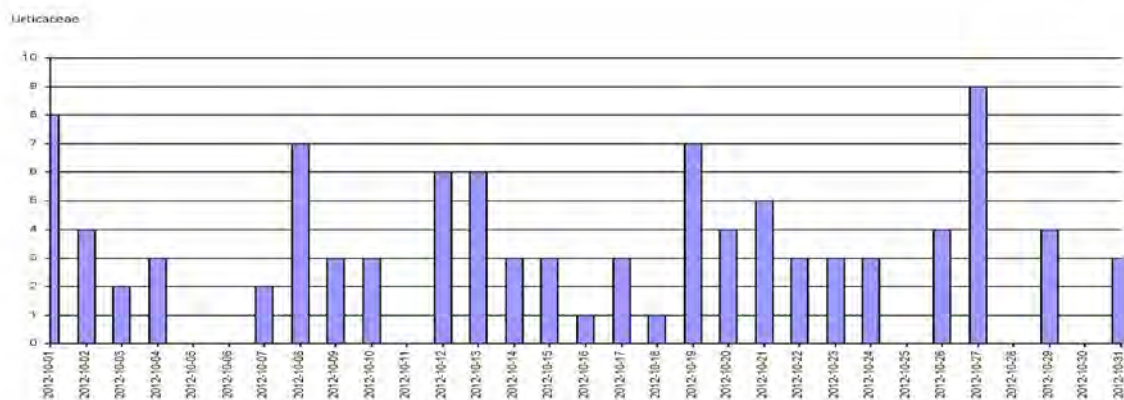


Fig. 148 Total pollen counts Urticaceae October 2012

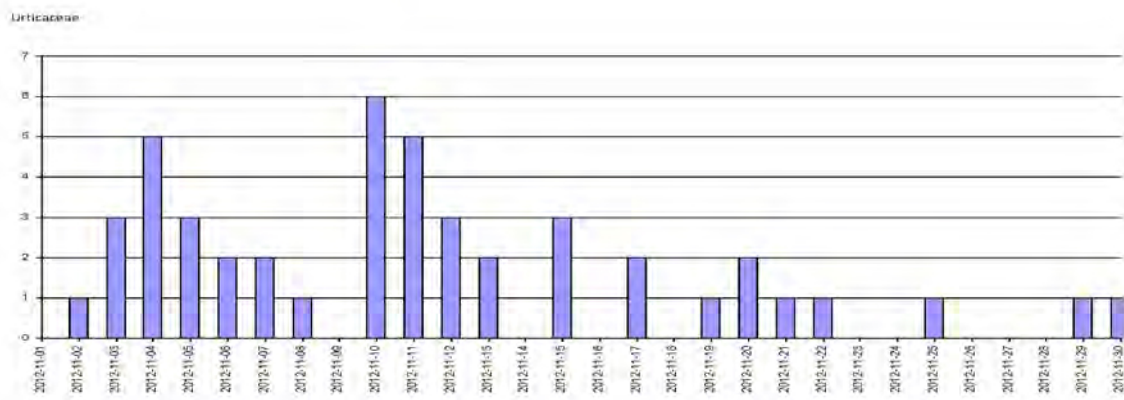


Fig. 149 Total pollen counts Urticaceae November 2012

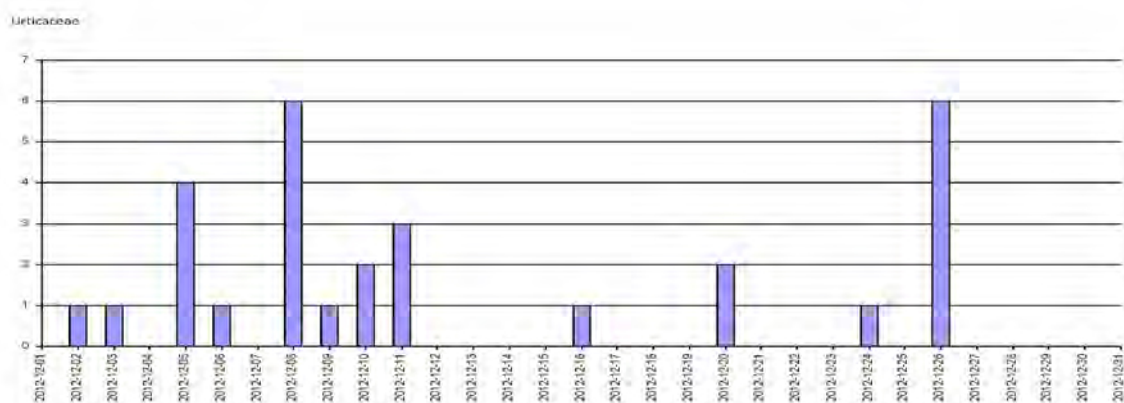


Fig. 150 Total pollen counts Urticaceae December 2012

Urticaceae pollen was by far the most strongly represented taxon in this study. Pollen from this family was present during all months of investigation predominating in July, August and September. Until mid-September persistent high pollen values were registered. The exceedingly high pollen concentrations were at their peak on August 18 (in both years it was the same date) with maximum daily values of over 5300 pollen grains in 2011 and more than 4200 pollen grains in 2012, respectively.

3.2.9 Pollen of other taxa

Beside pollen from allergenic wind-pollinated plants mentioned above, pollen of other taxa was detected in the slide preparations as well. Of course, those other pollen grains are not necessarily allergic.

The most frequently occurring taxa were *Mercurialis sp.* (Euphorbiaceae), *Tilia spp.* (Tiliaceae), Brassicaceae, Balsaminaceae and Apiaceae. Other detected species or families include Boraginaceae, Ericaceae, Fabaceae, *Phacelia sp.* (Hydrophyllaceae), *Populus sp.* (Salicaceae), Rubiaceae and others, most of them being entomophilous. For all identified pollen grains see Appendix.

In the samples, there can also be found low concentrations of pollen from *Platanus spp.* and *Alnus spp.* that are both wind-pollinated plants and commonly considered as allergenic, but have their pollination period in spring - *Platanus spp.* in April or May and *Alnus spp.* from March until April [FISCHER et al. 2005].

On some days, there were clusters of unidentified pollen grains in the samples, for instance on 2011-09-14, 2011-09-29 or on 2012-09-11. On July 9, 2012, there were clusters with hundreds of small grains that were defined as „confer Brassicaceae“ because they could not be identified definitely. In consideration of the vast quantity of grains piled up, the number could not be counted precisely but was more estimated. This was also the case with pollen clusters on 2012-10-21 and on 2012-10-26 where approximately 1908 pollen grains were found on several clusters within the first six hours.

In both years, there was a relative high number of pollen grains that could not be unidentified.

3.3 Spores

Plenty of various types of spores were detected in the samples, including fungal spores as well as spores of ferns and mosses.

In the absence of any quantitative information, it is hereby referred to KOLLAR [1983] who claims that the major part of airborne fungal spores is represented by two genera of Fungi imperfecti, *Alternaria spp.* and *Cladosporium spp.* which could also be found in the preparations en masse. Spores of ferns and mosses were not identified.



Fig. 151 *Alternaria spp.* in a pollen sample from July 24, 2011

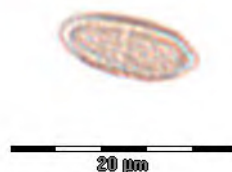


Fig. 152 *Cladosporium spp.* in a pollen sample from September 12, 2011.

As mentioned above (see also Chapter ‘Material and Methods’) airborne spore contamination was estimated according to four categories: “0” for “no contamination with spores”, “+” for “low contamination”, “++” for “moderate contamination” and “+++” for a “high contamination”.

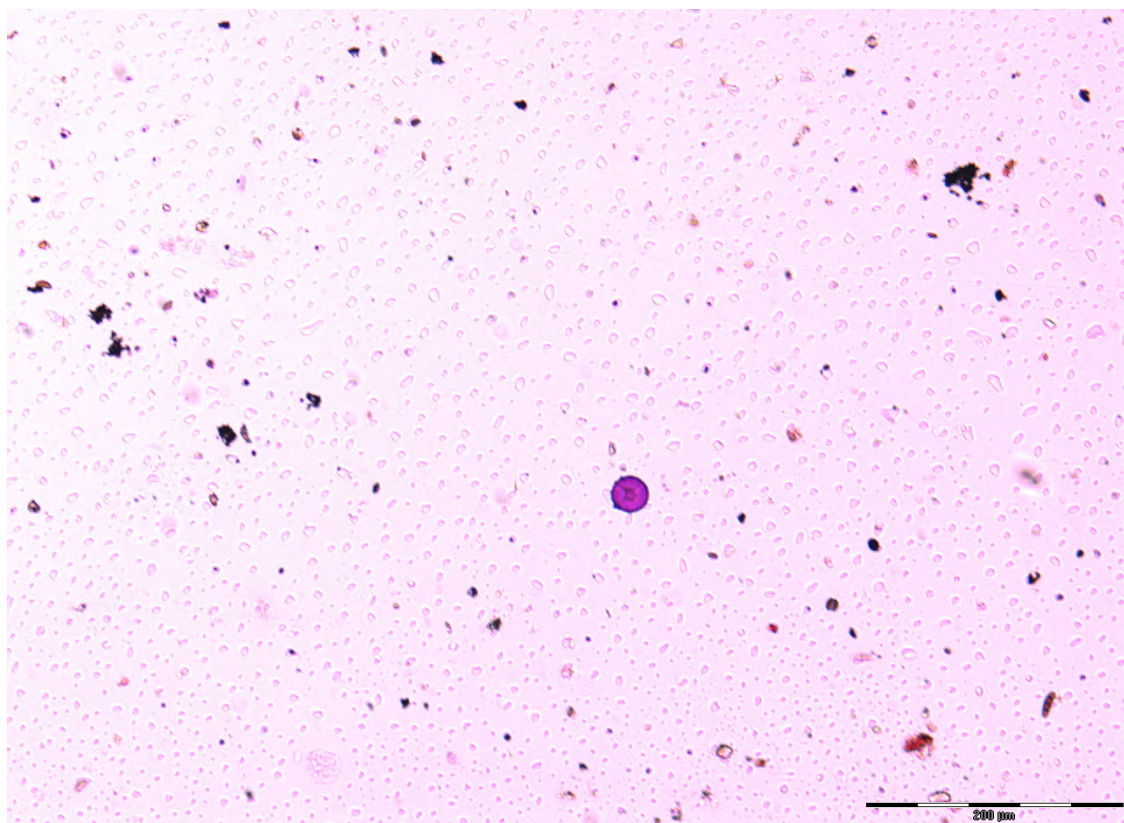


Fig. 153 Example of the category “no contamination with spores”, pollen sample from September 20, 2011.

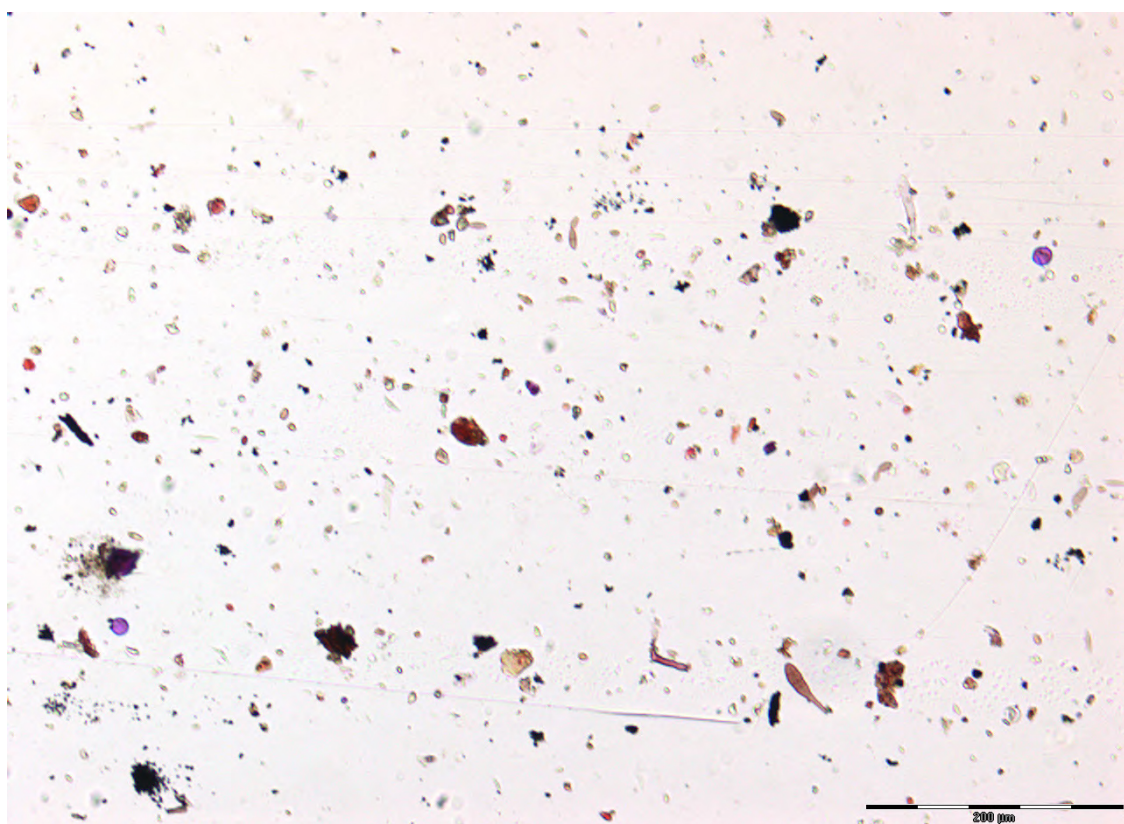


Fig. 154 Example of the category “low contamination with spores”, pollen sample from August 5, 2012.

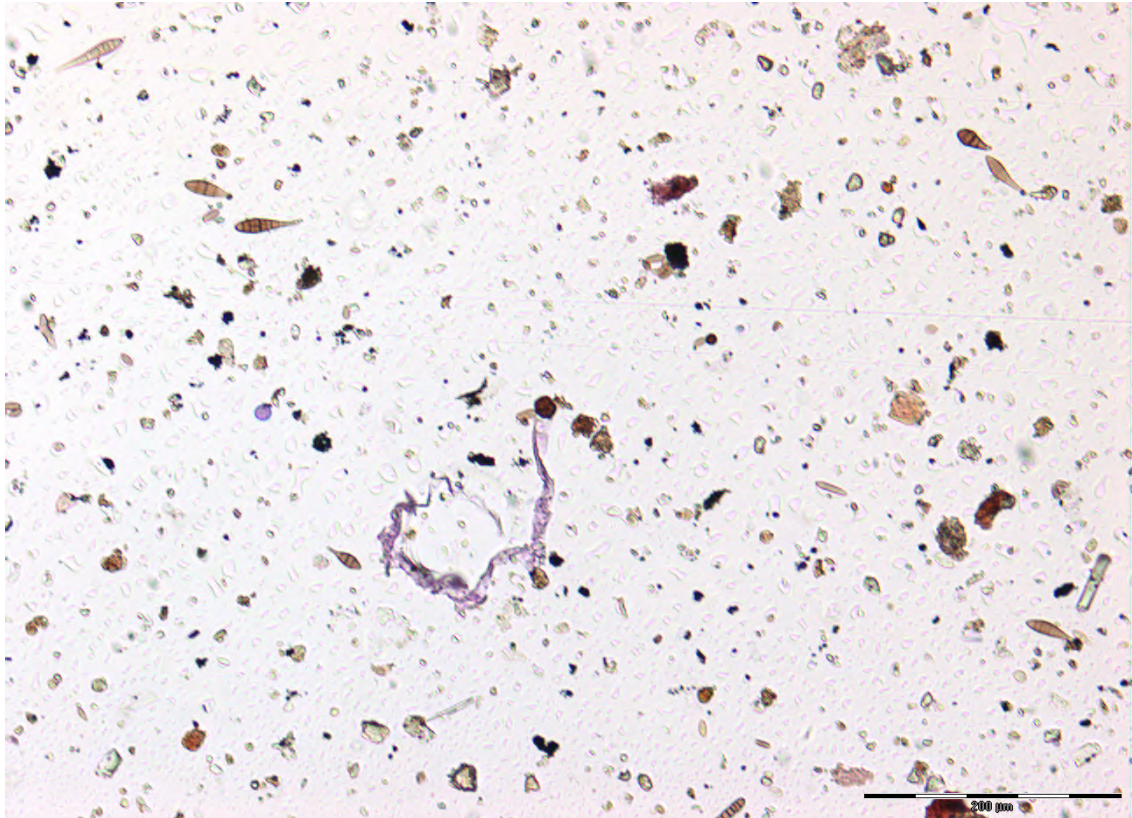


Fig. 155 Example of the category “moderate contamination with spores”, pollen sample from August 30, 2011.

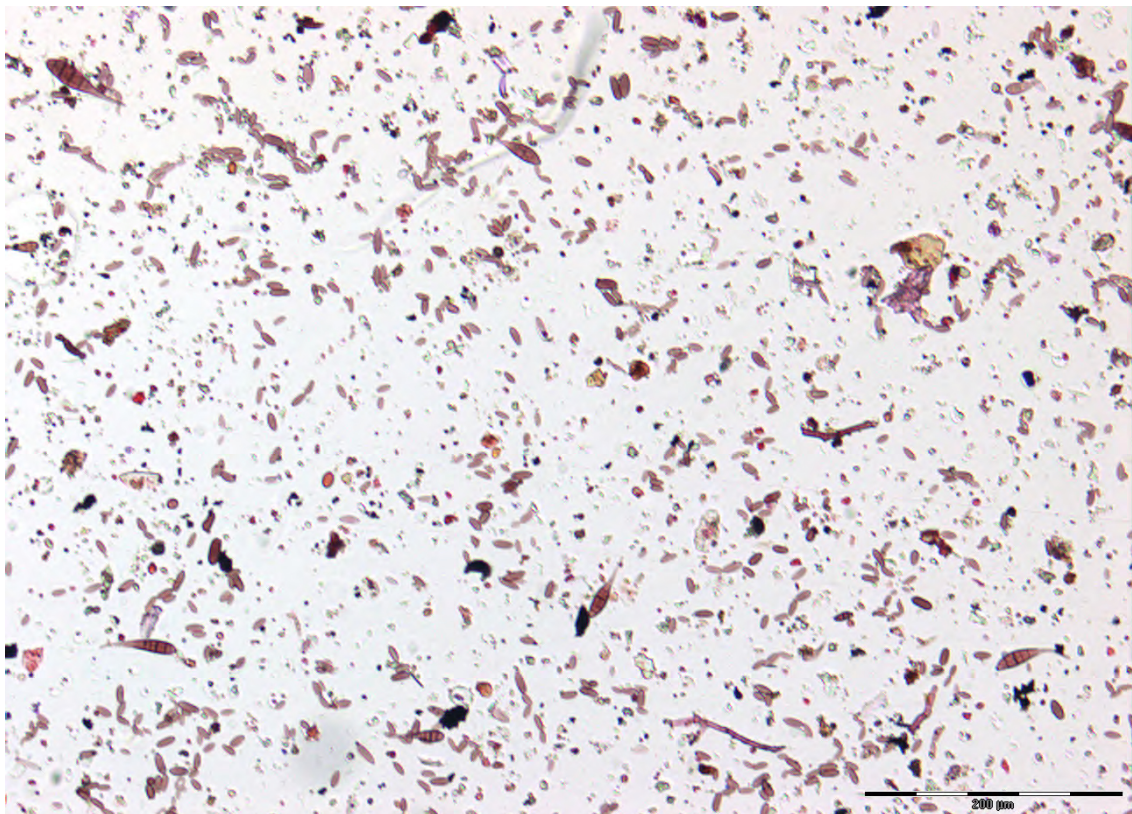


Fig. 156 Example of the category “high contamination with spores”, pollen sample from July 9, 2012.

Although airborne spores were not counted by number, it can be postulated doubtlessly that fungal spores outnumbered pollen in the collected samples in both years. Spores were detected throughout all months, even though the amount was decreasing in the winter months.

2011

Several maxima with high fungal spore contamination in July, August, September and October interrupted by days with lower or moderate fungal pollution were registered. The first maximum level was observed on July 6. From November 16 until the last records in this year on December 14, only low to nearly no spores were detected with only a few exceptions. On two single days in October (October 8 and Oct 9) there was no contamination at all, too. Starting in November, there were 17 days showing no spore contamination at all throughout the whole day.

2012

As in 2011, in 2012 lots of maxima with high fungal spore contamination were observed throughout the summer months of July until October, interrupted by days with decreased levels of contamination. The first maximum level was registered on July, 1 which is earlier than in 2011. The first days without any airborne spore contamination were detected on October 11 and October 26, but no such days were found in November, unlike 2011. In December, only 8 days with no contamination at all were found.

3.4 Particulate matter

There were no specific investigations or records made on air pollution-related particles such as particulate matter¹ (fine dust) in the slide preparations. Though, on some days, remarkable amounts of dust particles were noticed in the samples, for example in 2011, on October 3 and 6, or in 2012, on July 19, August 15, September 19 and November 13.

At that dates, a high particulate matter¹ pollution was accompanied by high levels of fungal spores in the preparations, to take for example 2012-08-15 or 2012-11-13. Nevertheless, that combination must not necessarily go hand in hand, for instance on 2012-12-27 where lots of air pollution particles were observed, but nearly no spores.

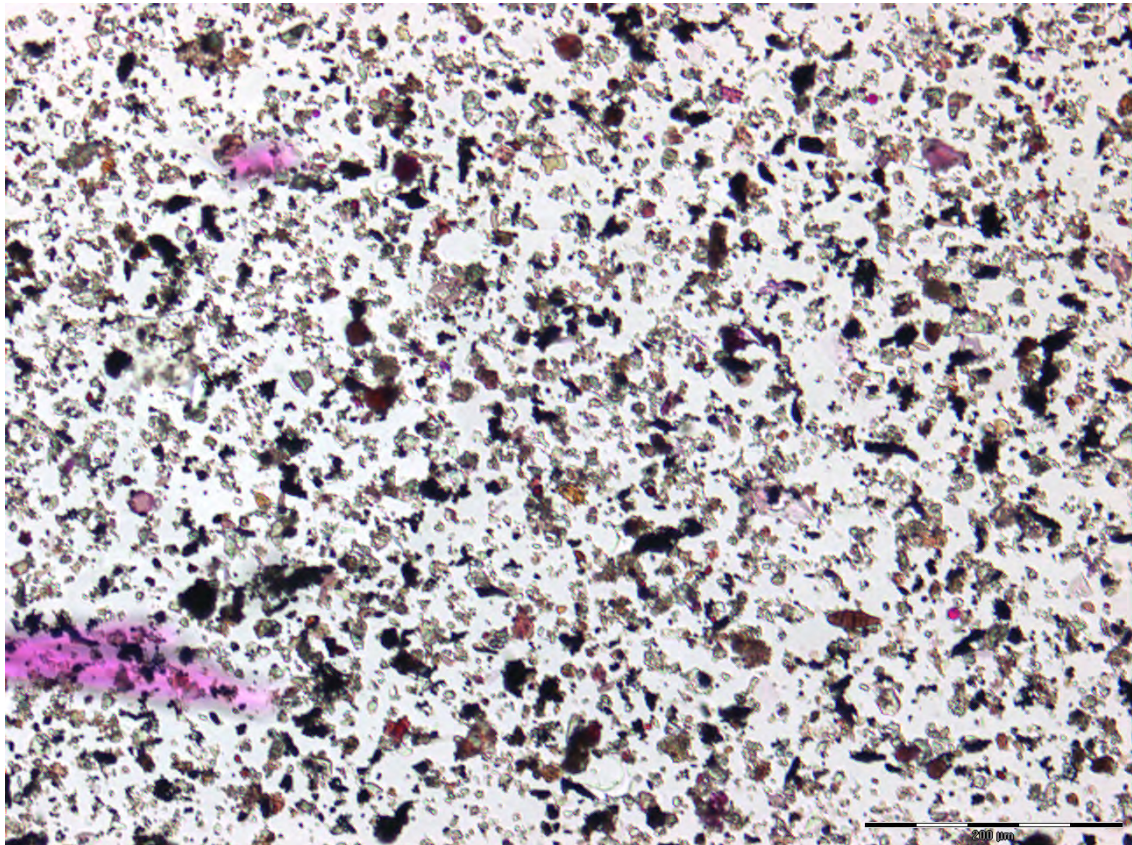


Fig. 157 High concentration of air pollutants in the slide sample from October 6, 2011.

¹ The term „particulate matter“ refers to a mixture of solid particles and liquid droplets in the air. Those are composed of smoke, fumes, dust, ash, pollen and aerosols. A distinction is made between PM_{2.5} and PM₁₀ that are characterized by their size. PM_{2.5} implies a size of 2,5 µm in diameter and less which is able to penetrate the airways further than bigger particles [ONTARIO MINISTRY OF THE ENVIRONMENT, 2013-12-03].

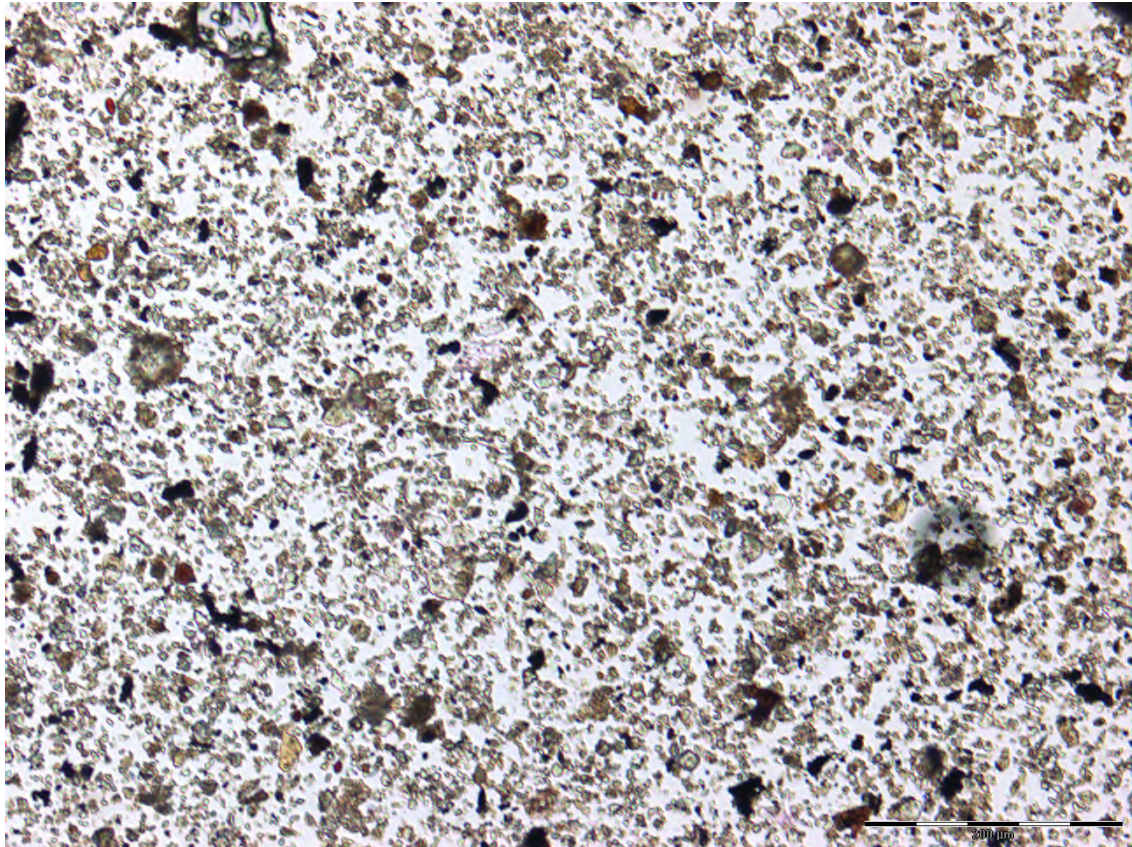


Fig. 158 High concentration of air pollutants in the slide sample from November 13, 2012.

4 Discussion

4.1 Errors and bias

There are many factors influencing airborne pollen sampling and counting. On the one hand, there are human errors, on the other hand there are also methodological errors. In the following, there is an examination of potential sources of errors without any claim to completeness.

Sampling

One factor is that changing of the drum is not carried out timely.

It is also possible that airborne pollen hit the tape of the sampling drum while exchanging the drum, especially when a strong wind is blowing, or while preparing the samples. Nevertheless, this possibility is unlikely because the changing of the drum was carried out very quickly (5-10 sec) and before preparation, all reasonable precautions were taken to prevent contamination with pollen, like closing windows and door or wearing a work coat.

It has to be taken into consideration, too, that the amount of sampled pollen represents the content of 14.4 m³ air per day.

Study site

One main point of criticism in this study is the location of the trap on the Faculty Centre of Biodiversity in the Botanical Garden which is not well chosen. The Garden has a flora with a great variety of species (see also Appendix) not representative for Vienna and its surrounding vegetation. The amount of different plant species in the Botanical Garden can lead to data bias in quantity and quality of the counted pollen grains. The pollen trap might as well gather wind-pollinated pollen from exotic plants, rare plant species or ornamental plants that do not play a role in triggering pollinosis symptoms. Moreover, there is a big plane tree next

to the Faculty Centre that causes an overrepresentation of plane pollen in the samples.

However, some other species might be overrepresented, too, because the Botanical Garden provides a lot of green spaces and therefor pollen from Poaceae or Urticaceae might occur more frequently here than in other urban areas in Vienna.

One of the reasons of locating the trap in the Botanical Garden was that the data can be easily compared to that from KOLLAR [1983] who conducted her study of airborne pollen counts in the Botanical Garden of Vienna next to the Faculty Centre of Biodiversity with a trap that was set at a height of two meters above ground.

Preparation

As mentioned in the chapter 'Material and Methods', sampling does not start with the beginning of the tape. Mistakes can be made when positioning the tape on the cutting block so that the sampling start point is in the right position. For this purpose, the start point of sampled pollen and spores had to be recognized on the basis of the fact that it appeared a bit darker than the clear plastic tape.

Cutting the tapes into segments of 48 mm was done manually with a scalpel and therefor could not be accurate to a millimetre. That means that it was possible that pollen from one day was on the segment of another day and was counted accordingly for that day.

Analysis

Pollen grains that lay outside the sampling tape but yet under the cover glass and covered with glycerine jelly, could not be assigned to the correct interval of time without a doubt. Those particles were assigned to the six hours-interval that was close to the particle due to the fact that this time segment was the most probable based on the location of the grain (see also "Material and Methods").

When there was a high contamination with fine dust or spores or even both, pollen grains could easily be missed because the black dust particles or the masses of spores could cover the grains. Particularly, this was a problem with small pollen grains such as Urticaceae (10-25 µm).

For some pollen grains, it was not possible to identify them exactly because their features (apertures, sculptures) could not be determined, at least not under an optical microscope with a maximum magnification of 600x using preparations with fuchsin-stained glycerine gelatine as it was the case in this study.

Under an optical microscope, pollen grains can not always be identified for sure. Due to the fact that the sampled pollen is not treated chemically (for example with acetolysis), protoplasm and intine of the grains are still present [KOLLAR 1983]. This leads to a more difficult identification of ornamenting elements (sculpture) on the pollen surface. Ornamentation is important to enable an exact systematic attribution of the grains to species, genus or family. Therefore, it was not always possible to identify the corresponding plant species of the pollen grains with the help of sculpturing elements, so that in most cases pollen grains were attributed to their genus taxon, and some only to their family.

Ornamentation often seems different under optical and electron microscope. For instance, *Parietaria officinalis* pollen grains (Urticaceae) appear to have a psilate ornamentation under optical microscope, but SEM (Scanning Electron Microscope)-pictures proof that they are microechinate [PALDAT, 2013-11-02]. It is nearly impossible to distinguish between some species of the families Chenopodiaceae, Poaceae or Asteraceae because there is too much similarity between them and the resolution of the microscope is limited.

In Fig. 159 an example of three species of the family Chenopodiaceae can be seen, in which every representative is characterised by a pantoporate aperture type as well as a granulate ornamentation, and all three of them are medium-sized (26-50 µm) [PALDAT, 2013-11-02]. Because of the similarities, in this investigation, species of Chenopodiaceae were just summarized under the category “Chenopodiaceae”.

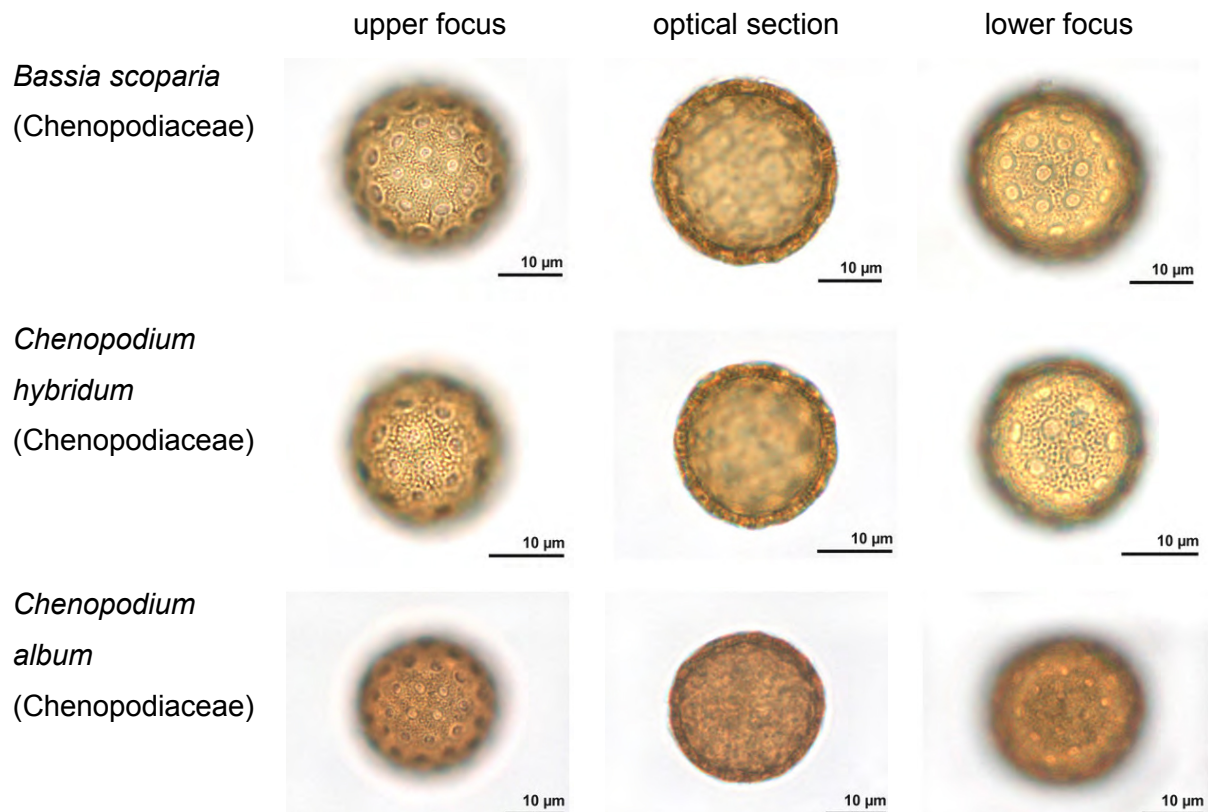


Fig. 159 Comparison of acetolysed pollen grains from three Chenopodiaceae species (*Bassia scoparia*, *Chenopodium album* and *Chenopodium hybridum*) under optical microscope. Pictures taken from <http://www.palдат.org/> on November 2, 2013.

Of course, exact determination depends also on the size and the view (polar view, equatorial view) of the pollen grains. Another influencing factor is the quality of the slide preparations - when the layer of glycerine gelatine on the slide is thick, the resolution is decreasing, especially with the 60x objective. Also, problems occurred when air was locked up in the jelly due to preparation failures. Under microscope, air appears black so that particles lying under air bubbles could not be identified and counted.

It should not be left unmentioned in this context that positioning the acetate sheet in order to divide the day into intervals can never be precise down to micrometers.

It is also possible that grains were counted twice or not at all because switching lines with the microscope was done with the help of reference points such as pollen grains, spores, dust particles or air bubbles. This procedure is also prone to errors, but probably the mistakes made this way are not of greater importance.

Estimating the contamination with spores was rather subjective. Counting the whole of spores would have been far too time-consuming. Therefore, the result can be seen only in a qualitative, not in a quantitative way. Considering the aspect that recording the exact amount of spores was not relevant in this study, that factor does not reduce the study's information value.

It also happened that pollen grains in the slide preparations did not occur during the blooming period of the corresponding plants – in this case the identification of the grains could not be confirmed with the help of the blooming period.

Concerning the sources of errors mentioned above, it is reasonable that the pollen grains were not counted by the hour, but by intervals of a quarter day. Recording the pollen amount of every hour separately, which is usually done in pollen forecasts, leads to more error-prone values instead of more precision.

To minimize the sources of errors, the whole amount of pollen found on the microscope slides was counted. In the daily management of pollen counts it is an established method to just count a small amount of pollen grains on the slide (usually from 12 to 15%). In 1999, COMTOIS figured out that with a bigger percentage of the slide analysed, estimation errors could be reduced. Reading four longitudinal lines, which accords to 13,3% of the fields, is a standard procedure. In his investigation, the mean estimation error in this standard procedure was 63,3% and varied between 10,5% and 474%. Only when there were counts exceeding one thousand grains the value averaged 16,9% [COMTOIS et al. 1999].

On account of this, analysing the entirety of the slide preparations instead of just a certain percentage is one major advantage of this study.

4.2 Climate data

Plotting the curves of temperature versus humidity shows the correlation between those two parameters: When the curves approximate, meaning that temperature

increases and humidity decreases, the conditions for a plant are convenient to flower. Due to the morphological structure of the anthers, they are bursting at high temperatures combined with low humidity and consequently deliver their pollen into the air. The higher the approximation, the more likely flowering is. In November and December, a strong approximation of the four humidity curves themselves as well as the four temperature curves themselves can be observed because climate becomes more constant towards the end of the year.

Relating to pollen forecasting it would be useful to monitor the trend of the curves. A linearly increasing temperature curve in combination with precipitation forecast enables forecasting the air humidity. According to the correlation of temperature and humidity the probability of flowering can be predicted.

4.3 Pollen counts

4.3.1 Asteraceae

4.3.1.1 Asteroideae incl. *Ambrosia artemisiifolia* and *Artemisia* spp.

Within the family of Asteraceae, the genera *Ambrosia* and *Artemisia* are of the greatest allergological relevance. RADAUER and BREITENEDER [2006] were able to classify 8 allergenic species among the composite plants.

Asteroideae

It is not surprising that Asteroideae pollen was existent in all months, because the family Asteraceae is one of the biggest plant family of the world.

Related to pollen allergy, it must be considered that there is a cross-reactivity of mugwort and ragweed pollen with nearly all pollen of the subfamily Asteroideae like *Helianthus* sp. (sun flower), *Solidago* sp. (goldenrod), *Bellis* sp. (daisy), *Matricaria* sp. (chamomile) or *Chrysanthemum* sp. [AUSTRIAN POLLEN INFORMATION SYSTEM, 2013-11-25]. *Helianthus* pollen has a strong cross-reactivity with *Artemisia* pollen, in contrary *Ambrosia* pollen is less cross-reactive with

Helianthus and Solidago pollen [FERNANDEZ et al. 1993, WEBER 2001]. Sunflower as well as goldenrod can lead to rhinoconjunctivitis, but in general it only plays a minor role in triggering allergies [KAMINSKI et al. 2010].

There is the possibility that on single days the number of Asteroideae pollen (except *Ambrosia artemisiifolia* and *Artemisia spp.*) plays a role in pollen allergy when combined with higher concentrations of allergologically important pollen grains. Over the year, however, the observed amount of Asteroideae pollen gives barely a hint to consider this taxon to cause greater concerns in allergic humans.

Ambrosia artemisiifolia

The very high concentrations of *Ambrosia artemisiifolia* pollen compared to other taxa can be explained by the fact that *A. artemisiifolia* plants produce large quantities of pollen that can release millions of grains per plant [D'AMATO et al. 2007].

The occurrence of a large number of pollen grains in the early morning (from 00:00 to 06:00 a.m.) indicates the dispersion over long-range-transport because during this period plants are not shedding pollen in Vienna. This observation is substantiated by the fact that *Ambrosia* pollen grains are small, which makes them likely to being transported via long distances [D'AMATO et al. 2007]. It is possible that the long-distance transport of *Ambrosia* pollen may prolong the pollen season [CECCHI et al. 2007].

The appearance of vast quantities of *Ambrosia* pollen as it was detected in this study is anxious insofar as *A. artemisiifolia* pollen is one of the most potent and most important pollen in terms of allergy in late summer and autumn. It is held responsible for the bigger part of allergical symptoms in late summer [ZWANDER 1996]. LAAIDI et al. [1997] proclaim that in allergic persons, 40 grains per m³ will lead to the typical pollinosis symptoms, in hypersensitive patients even 3 grains per m³, whereas STACH et al. [2007] claim that the threshold value is below 20 grains per m³ for the bigger part of the sensitised allergy sufferers.

JÄGER [2000] noted that there is an increase of *Ambrosia* pollen counts as well as allergenic sensitisation in Vienna since the 1980s.

Artemisia spp.

Like *Ambrosia artemisiifolia*, *Artemisia spp.* pollen was found during the night and early hours (00:00 until 06:00 a.m.). That finding suggests the possibility of long range transport because during night there naturally is no pollen flight. An explanation could be provided by the fact that *Artemisia* pollen has a similar size and density as *Ambrosia* pollen; and that it should therefore own the same flight qualities [KAMINSKI et al. 2010].

In Central Europe, mugwort pollen is one of the most important late-summery pollen allergens and belongs to the most aggressive ones. Already 6 grains per m³ air are regarded as a high pollen load [VON WAHL 1989].

Artemisia vulgaris and *Ambrosia* have almost identical blooming periods and are known for their cross-reactivity [D'AMATO et al. 2007]. Considering the possibility that both *Artemisia* as well as *Ambrosia* pollen is prone to long distance transport, this is especially important for allergic persons. By summarizing the pollen number of both occurring species, the threshold value can be reached much earlier than with one species alone. In addition, the night-time occurrence of airborne pollen could lead to allergy symptoms already early in the morning.

4.3.1.2 Cichorioideae

Cichorioideae pollen was hardly caught by the pollen trap because the most important species of this taxon, *Taraxacum officinale*, is insect-pollinated like all other indigenous Cichorioideae species. Considering the dimensions of the pollen counted in the preparations, it is not likely that Cichorioideae pollen has any influence on triggering pollinosis symptoms.

4.3.2 *Castanea sativa* (Fagaceae)

To identify the source of *Castanea* pollen in the early morning, the back-trajectories illustrated in the chapter “Results” can be useful. From the graphics relating to July 1, 2012 (Fig. 69) it can be seen that *C. sativa* is widely distributed in Slovenia, Croatia and Bosnia and Herzegovina. Backward-trajectories starting from Croatia and ending in Vienna between 00:00 and 06:00 a.m. could have transported *Castanea* pollen with the air masses and might explain the appearance of airborne *C. sativa* pollen in this period.

Further, two more backward trajectories having their origin in Croatia and Bosnia and Herzegovina lead to Vienna on this day and end between 12:00 a.m. and 06:00 p.m. They might provide an explanation for the high number of *Castanea* pollen counted on this day causing the significantly higher pollen peak (249 pollen grains) in 2012 compared to 2011 (49 pollen grains).

As can be seen from Fig. 70, the counted *Castanea* pollen on July 17, 2012 in the time period from 00:00 until 06:00 a.m. (red line) could possibly derive from air masses originating in Britain at moreless ground level. The blue and green line touch also the distribution area of *Castanea sativa* whereas the pink and turquoise lines have their origin in more than 1.000 m height and do not cross any source of *Castanea* pollen.

This leads to the conclusion that the transport of *C. sativa* pollen is carried out in a cross-national way.

4.3.3 *Chenopodiaceae*

Regarding the possibility that the observed variabilities in the *Chenopodiaceae* pollen concentration display several peaks, the question raises where they derive from. Due to the fact that *Chenopodiaceae* are herbaceous plants that grow mostly in ruderal areas [FISCHER et al. 2005], it is likely that those peaks belong to species with varying flowering periods. For example, the peak at the beginning of September could derive from late-flowering species such as *Chenopodium bonus-henricus* or *Ch. album*. Though, it is equally possible that peaks are

caused by Chenopodiaceae pollen that have been transported with air masses over long distances.

According to the proposal of VON WAHL [1989] a value of 15 Chenopodiaceae pollen grains per m³ air is enough to be described as a strong contamination for allergy sufferers. However, in recent literature there could not be found any hints to classify this family's representatives as potent allergens. Therefore it is not entirely clear which role the registered amount of Chenopodiaceae pollen does play in pollen allergy.

4.3.4 Cupressaceae / Taxaceae

There was a high incidence of Cupressaceae / Taxaceae pollen in the preparations although both species have their flowering period not later than June. Due to the fact that Cupressaceae and Taxaceae pollen is quite similar, a distinction can only be made on the basis of the flowering periods: *Taxus sp.* flowers in early spring (February to April) whereas Cupressaceae are in flower in late spring (March to May or June) [FISCHER et al. 2005, KOLLAR 1983]. That means that the pollen in this study should rather be assigned to the cypress family than the yew family because investigations started in July. Nevertheless, this can not be postulated with complete accuracy.

Cypress trees are richly represented in the South of the Botanical Garden of the University of Vienna (arboretum). Plenty of Taxaceae plants can be found in the South as well as in the northern part of the Botanical Garden, whereas the vast majority are *Taxus baccata* trees (see also Appendix). Cypress also liberates a big amount of pollen [D'AMATO and LICCARDI 1994]. On that account, counts could be overrepresented in this study, considering that those plants may not occur so frequently in the rest of Vienna than it is the case in the Botanical Garden and its vicinity.

Nevertheless, consideration must be given to the two surprisingly arising peaks in October and November 2012. It could be possible that those unusually high pollen concentrations (regarding the fact that those plants are not blooming at

this time) derive from long distance transport or from ornamental trees. Maybe the pollen has its origin in the Mediterranean area where cypress is considered responsible for winter pollinosis [D'AMATO and LICCARDI 1994].

Cupressus belongs to the most allergenic taxa in Europe, in particular in the Mediterranean regions [D'AMATO et al. 2007]. Some years ago, the cypress family attracted little interest because it was not held responsible for producing allergenic pollen [GALÁN et al. 1998]. According to RADAUER and BREITENEDER [2006] there are 16 allergenic pollen species within the cypress family. One of the most important species is Japanese Cedar (*Cryptomeria japonica*) causing lots of allergenic problems in Japan where it was planted country-wide.

In some other airborne pollen studies, like in this one, the counts for both families Cupressaceae and Taxaceae were stated as a single pollen type and therefore summarised to one group named “Cupressaceae/Taxaceae” [AIRA et al. 2001, KOLLAR 1983, LANGLOIS-KARAGA et al. 1992, PETERNEL et al. 2003, SANDER 2014, SIKORA et al. 2013]. Data-recording sheets used by the Spanish Aerobiology Network also contain the category “Cupressaceae/Taxaceae” [GALÁN SOLDEVILLA et al. 2007].

This classification is pragmatic because of a lack of possibilities to differentiate between Cupressaceae and Taxaceae pollen, on the other hand, this group of families was also described as having allergenic relevance not only by SOFIEV and BERGMANN [2013], but also in a report of the WORLD HEALTH ORGANIZATION [2003]. However, it was difficult to find any literature paying attention to the family Taxaceae alone. There was one small study investigating *Taxus cuspidata* pollinosis in which 5 of 18 patients were sensitised and showed specific IgE antibodies against *T. cuspidata* and in one allergy subject a *Taxus* pollinosis could be stated [MAGUCHI and FUKUDA 2001]. In investigations on classification of pollen allergens RADAUER and BREITENEDER [2006] were able to identify the yew as an allergenic species.

There is a high cross-reactivity within the cypress family (*Cupressus*, *Cryptomeria* and *Juniperus*), but also between the families Cupressaceae and Taxaceae

[BARLETTA et al. 1996, CABALLERO et al. 1996, MARI et al. 1996]. No threshold values for noticeable allergic symptoms could be found in the literature, neither for the cypress, nor the yew family.

4.3.5 Pinaceae

The constant Pinaceae pollen concentration in the preparations can be explained by the great diversity of species from the genera *Pinus sp.*, *Picea sp.*, *Larix sp.* and *Abies sp.* in the Botanical Garden of the University of Vienna.

Counted pollen in July and August could possibly be assigned to *Pinus mugo*. Pinaceae pollen peaks in October which were detected in both years probably derive from *Cedrus sp.* Possible sources of cedar pollen in the Botanical Garden are two trees of *Cedrus atlantica f. glauca* and *C. deodara*, respectively.

It is noticeable that the main pollen season of *Cedrus spp.* starts approximately three weeks later in 2012 than in 2011.

For a long time, *Pinus* pollen was not considered to be allergenically important. However, there is evidence that *Pinus* pollen may be a relevant aeroallergen since pine pollen itself can be the only cause of pollinosis [MARCOS et al. 2001, PETTYJOHN and LEVETIN 1997]. Nevertheless, pine pollinosis is exceedingly rare in Central Europe [BEHRENDT and BECKER 2001]. PETTYJOHN and LEVETIN [1997] reported a cross-reactivity of Pinaceae with Cupressaceae pollen. According to RADAUER and BREITENEDER [2006] there are 6 Pinaceae species for which allergic reactions have been described in the literature.

4.3.6 *Plantago spp.* (Plantaginaceae)

The results of the *Plantago spp.* pollen counts do not show particularly high pollen concentrations. Supposedly the pollen derives from several species regarding the different flowering periods within this taxon.

However, *Plantago* pollen has moderate allergic potential und is therefor only of minor importance for allergy patients [WÄCHTER 1978].

4.3.7 Poaceae

The high prevalence of recorded Poaceae pollen can be explained by their effective mechanism to release pollen which is different from most other wind-pollinated plants: The pollen can be liberated already by a light gust of wind, because the filaments are long and thin [FUCKERIEDER 1976, INGOLD 1971]. Moreover, in the Botanical Garden, huge lawns provide space for lots of various grass species.

The occurrence of several grass pollen peaks presumably results from flowering seasons of different Poaceae species. The family Poaceae is composed of more than 600 genera and over 10 000 species. Among these, more than 400 wind-pollinated plant species can be found in Europe [D'AMATO et al. 2001] which makes it quite impossible to allocate those peaks to the corresponding species. According to LAFFER et al. [1992], the major part of airborne grass pollen comes from meadow grasses like *Dactylis glomerata*, *Phleum pratense* or *Alopecurus pratensis*. Of course, cereals such as *Secale cereale* which are cultivated can serve as aeroallergens as well [LAFFER et al. 1992]. The record of cereal pollen grains, for instance in August 2011, could be caused by agricultural activity like threshing.

However, there seems to be a difference between wild grasses and cereals. HÖRAK and JÄGER [1979] claim that *Secale cereale* pollen antigens are five times more aggressive than antigens of wild grass pollen. For instance, STAIGER [2003] reports that rye pollen has such a potent allergenic effect that only 7 pollen grains are deemed to be a strong exposure. Moreover, rye produces a vast quantity of pollen grains (one flowering spike produces approximately 4.2 million grains) [SUBBA REDDI and REDDI 1986]. Nevertheless, *Secale* pollen has a sink rate that is twice as high as that of pollen from *Dactylis glomerata* [POHL 1937]. Even though in the urban area of Vienna fields of rye are far away, JÄGER [1990] discovered airborne pollen concentrations of rye in this area having allergologic importance.

Due to the fact that *Zea mays* pollen grains are c. 130 µm in size they can contain loads of antigens. Though, compared to rye pollen, maize pollen is distributed to a lesser extend because of its huge pollen grains and a high sink rate [POHL 1937, HESS 1983]. JÄGER [1990] claims that maize pollen is not very frequent in urban areas and only staying within spitting distance of fields of maize poses a health risk for allergy sufferers.

In regard to future investigations, it maybe would be reasonable to distinguish between pollen from wild grasses and those of cereals which can be easily done by size.

Comparisons of the counts with climate data show that former allegations made by FÜCKERIEDER [1976] and PULS [1985] claiming that Poaceae require low temperature and high humidity for the emission of pollen could not be verified. Precisely the opposite was the case that high temperatures and low air humidity led to higher airborne pollen counts.

In Europe, grass pollen allergy is considered to be the major cause for pollen allergy and the most common pollinosis [D'AMATO et al. 1998]. According to RADAUER and BREITENEDER [2006], about a quarter of allergenic plant species belong to the grass family. In their investigations, they could find 43 allergenic Poaceae species. In the literature, there can be found threshold values ranging from 10 to 50 grass pollen grains per m³ air to provoke hay-fever symptoms in susceptible patients. [ANTÉPARA et al. 1995, DAVIES and SMITH 1973, ICKOVIC 1988, MUÑOZ et al. 2000, VON WAHL 1989]

4.3.8 Urticaceae

Urticaceae pollen counts showed the highest incidence of all recorded counts. Maybe the reason for those extremely high values in the samples can be found in the special mechanism of pollen liberation: When there are proper conditions of humidity and temperature, the stamina which are usually bent, rise up to an upright position and liberate their pollen grains by an explosive mechanism [GONZALEZ MINERO et al. 1998, TRIGO et al. 1996]. Indeed there was a positive

correlation of high temperature, low humidity and high airborne pollen counts recorded.

Furthermore, plants of the nettle family grow in ruderal areas, on rocks and ruins as well as in gardens and riparian forests [FISCHER et al. 2005]. Thus, they can be found frequently in the Botanical Garden [KOLLAR 1983] and its surrounding area giving another explanation for those exalted numbers.

In regard to the pollen counts, a problem occurring within this group is that *Parietaria* pollen has a high allergenicity while *Urtica* pollen is barely allergenic [JELKS 1991]. However, they were both counted as one group because it is nearly impossible to differentiate the pollen between those two genera.

Within the family of Urticaceae, *Parietaria* sp. is the genus of uttermost importance in regard to allergenic potential and is held responsible for lots of severe cases of pollinosis. The most allergenic species are *P. officinalis* and *P. judaica*, both having a high cross-reactivity [COLOMBO et al. 2003, D'AMATO et al. 2007]. NEGRINI et al. [1992] recorded that mild pollinosis symptoms occurred at threshold values above 10 to 15 pollen grains per m³ air, whereas severe symptoms were registered at airborne pollen concentrations above 80 grains per m³ per 24 hours.

4.3.9 Pollen of other taxa

To bring up the question why entomophilous pollen was sampled by the trap, one can only suggest that withered parts of the flower or whole anthers were distributed by the wind. It could also be possible that pollen grains from insect-pollinated plants were transported by the wind in a way that it cannot be classified as a directed, specific pollination, but more as an unusual, unspecific distribution. *Tilia* spp. show special features because its pollination strategy combines entomophilous and anemophilous pathways and therefor *Tilia* pollen can be found quite frequently in the samples compared to insect-pollinated plants only [HESSE 1979]. It also has to be considered that there are several *Tilia* spp. planted in the Botanical Garden, some of them at close range of the pollen trap

(see also Appendix). It was surprising to see that scattered *Alnus spp.* and *Betula spp.* pollen grains occurred in autumn and winter. These findings can be explained as remnant pollen grains from the flowering period in early spring, sunken to the ground and then occasionally raised by a gust of wind.

Clusters of pollen grains occurring in the samples can be explained by pollenkitt, a sticky substance keeping the grains together (explanation and function see chapter “Pollen characterisation and terminology”).

The relative high number of unidentified pollen in both years can be explained by the special location of the pollen trap considering the variety of different plants in the Botanical Garden including ornamental plants. This conclusion was also made by KOLLAR [1983] who did her airborne pollen investigation in the Botanical Garden of the University of Vienna, too.

4.4 Spores

Fungal spores play an important role in respiratory allergies like allergic rhinitis or bronchial asthma [BURGE and ROGERS 2000, BUSH and PORTNOY 2001, HASNAIN 2004]. The most important fungi are probably *Alternaria spp.* and *Cladosporium spp.*, both commonly considered allergenic [BEAUMONT et al. 1985, SOLOMON and MATTHEWS 1988].

The prevalence of airborne spores is highly influenced by meteorological factors such as temperature, humidity and seasonal variations [VERMA and GEORGE 2000]. It is discussed that so-called “Thunderstorm-associated asthma” which leads to exacerbations of asthma during thunderstorms is supported, amongst other factors, by an increase in fungal spores caused by heavy rainfall and higher air humidity during a thunderstorm [DALES et al. 2003].

As in the case of pollen, the liberation of fungal spores is influenced in a positive way by meteorological factors [KOLLAR 1983]. For some Ascomycota, unloading of spores happens by wind or strong insolation, others release their spores from

its ascus after moistening with rainwater which means that there is an increase of ascospores after a severe cloudburst [INGOLD 1971]. Basidiomycota set free their basidiospores mostly under moist conditions, because they were registered after rainy days and ensuing warm days by STRAKA [1975].

On the contrary, conidia of *Cladosporium* and *Alternaria*, are liberated in a passive way by vibrations of organic substance containing the fungi. Those vibrations can be caused by falling rain drops in a heavy shower [INGOLD 1971]. *Cladosporium* conidia usually are released after long periods of rain and following dry and windy weather, snow, however, prevents carrying away the spores [ADAMS 1964, HIRST and STEDMEN 1963, KOLLAR 1983].

In investigations on bioaerosol sampling, usually little attention is paid to fern and moss spores. According to BUNNAG et al. [1989] who made skin and nasal provocation tests with fern spore extract, fern spores are potential aeroallergens. However, recent literature considering this topic is still outstanding.

4.5 Particulate matter

Even though data on particulate matter concentrations are absent, it should not be left unmentioned that air pollutants play a major role in the development of allergies and exacerbation of asthma.

Air-pollution related particles are able to interact with aeroallergens on pollen grains, a fact that leads to an increased liberation of antigens [BEHRENDT et al. 1992, D'AMATO et al. 2001, KNOX et al. 1997]. In experimental studies, MOTTA et al. [2006] demonstrated that traffic-related pollutants can lead to an increased release of allergen-containing granules from *Phleum pratense* (timothy grass) pollen.

5 Summary

Seasonal allergic rhinitis (pollen allergy), an allergic disease caused by the inhalation of pollen grains, has a supposed prevalence up to 40% throughout the European continent. There is evidence that the prevalence of respiratory allergies induced by pollen has been increasing in the last decades.

For this study, airborne pollen counts were conducted with a volumetric pollen and particle sampler in the second halves of the years 2011 and 2012. The detected and registered pollen of uttermost allergenic importance include the taxa Asteraceae (Asteroideae inclusive *Ambrosia artemisiifolia* and *Artemisia spp.*, Cichorioideae), *Castanea sativa*, Chenopodiaceae, Cupressaceae/Taxaceae, *Plantago spp.*, Poaceae and Urticaceae.

Analysing meteorological data resulted in the following correlation of temperature and air humidity: The higher the temperature and the lower humidity, the greater the probability of flowering is. Consequently, airborne pollen concentrations increase.

Moreover, the assumption was made that pollen occurring in Vienna at times when respective plants were not flowering originates from foreign countries via long distance transport by wind. By means of back-trajectories retracing the way of air masses it was demonstrated, using *Castanea sativa* pollen as an example, that *Castanea* pollen could possibly derive from regions in Croatia or France, respectively. Distribution maps verifying the appearance of *C. sativa* in those regions substantiate the thesis that the distribution of *C. sativa* pollen is carried out in a cross-national way.

The aim of the present study was to contribute in improving the precision of pollen flight predictions by including meteorological data as well as informations about vegetation. However, further airborne pollen investigations conducted over decades will be needed to provide reliable and statistically significant statements.

6 Zusammenfassung

Saisonale allergische Rhinitis (Pollenallergie), eine allergische Erkrankung, die durch die Inhalation von Pollenkörnern hervorgerufen wird, besitzt vermutlich eine Prävalenz von bis zu 40% auf dem gesamten europäischen Kontinent. Es gibt Hinweise, dass die Prävalenz der durch Pollen ausgelösten respiratorischen Allergien in den letzten Jahrzehnten gestiegen ist.

Im Rahmen dieser Studie wurden mithilfe eines volumetrischen Pollen- und Partikelsamplers Pollenzählungen der Luft in den zweiten Jahreshälften der Jahre 2011 und 2012 durchgeführt. Der gefundene und erfasste Pollen mit der größten allergologischen Bedeutung beinhaltet die Taxa Asteraceae (Asteroideae inklusive *Ambrosia artemisiifolia* und *Artemisia spp.*, Cichorioideae), *Castanea sativa*, Chenopodiaceae, Cupressaceae/Taxaceae, *Plantago spp.*, Poaceae und Urticaceae.

Eine Auswertung der meteorologischen Daten ergab folgende Korrelation zwischen Temperatur und Luftfeuchtigkeit: Je höher die Temperatur und je niedriger die Luftfeuchtigkeit, desto größer ist die Blühwahrscheinlichkeit. Als Konsequenz davon steigen die Pollenkonzentrationen in der Luft. Darüber hinaus wurde vermutet, dass Pollen, der in Wien zu Zeiten vorkommt, zu denen die betreffenden Pflanzen nicht blühen, über Langstreckentransport mit dem Wind aus dem Ausland stammt. Mit Hilfe von Back-Trajektorien, die den Weg von Luftmassen zurückverfolgen, konnte anhand von *Castanea sativa* Pollen gezeigt werden, dass *Castanea* Pollen möglicherweise aus Gebieten in Kroatien oder Frankreich stammt. Verbreitungskarten, welche das Vorkommen von *C. sativa* in diesen Gebieten bestätigen, untermauern die These, dass die Verbreitung von *C. sativa* Pollen länderübergreifend erfolgt.

Das Ziel der vorliegenden Arbeit war, einen Beitrag zur Verbesserung der Präzision von Pollenflugvorhersagen zu leisten, indem Wetterdaten sowie Informationen über die Vegetation miteinbezogen werden. Es sind jedoch weitere

Untersuchungen zum Pollenflug in den nächsten Jahrzehnten notwendig, um verlässliche und statistisch signifikante Aussagen anbieten zu können.

7 References

7.1 Literature

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7.2 Internet sources

AUSTRIAN POLLEN INFORMATION SYSTEM
www.pollenwarndienst.at
 BOTANISCHER GARTEN UNIVERSITÄT WIEN
www.botanik.univie.ac.at
 GOOGLE MAPS
maps.google.at

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- Fig. 147** Total pollen counts Urticaceae September 2012
- Fig. 148** Total pollen counts Urticaceae October 2012
- Fig. 149** Total pollen counts Urticaceae November 2012
- Fig. 150** Total pollen counts Urticaceae December 2012
- Fig. 151** *Alternaria spp.* in a pollen sample from July 24, 2011
- Fig. 152** *Cladosporium spp.* in a pollen sample from September 12, 2011.
- Fig. 153** Example of the category “no contamination with spores”, pollen sample from September 20, 2011.
- Fig. 154** Example of the category “low contamination with spores”, pollen sample from August 5,

2012.

Fig. 155 Example of the category “moderate contamination with spores”, pollen sample from August 30, 2011.

Fig. 156 Example of the category “high contamination with spores”, pollen sample from July 9, 2012.

Fig. 157 High concentration of air pollutants in the slide sample from October 6, 2011.

Fig. 158 High concentration of air pollutants in the slide sample from November 13, 2012.

Fig. 159 Comparison of acetolysed pollen grains from three Chenopodiaceae species (*Bassia scoparia*, *Chenopodium album* and *Chenopodium hybridum*) under optical microscope. Pictures taken from <http://www.palдат.org/> on November 2, 2013.

8 Appendix

8.1 Raw data of the pollen counts

Raw data of the pollen counts can be seen on the attached data CD in the cover.

8.2 Botanical Garden of the University of Vienna - Legend

Source: BOTANISCHER GARTEN UNIVERSITÄT WIEN [www.botanik.univie.ac.at, 2013-05-30]

Gr. 1: – 1 **Caesalpiniaceae:** *Cercis siliquastrum*; 6 **Oleaceae:** *Fraxinus ornus*; 9 **Oleaceae:** *Fraxinus americana*; 14, 24 **Oleaceae:** *Fraxinus* sp.; 31 **Fabaceae:** +*Laburnocytisus 'Adamii'*; 37 **Caesalpiniaceae:** *Cercis siliquastrum*; 38, 40, 41, 42 **Oleaceae:** *Fraxinus* sp.

Gr. 2: – 3 **Rosaceae:** *Exochorda korolkowii*; 23a-d, 30 **Magnoliaceae:** *Magnolia ×soulangeana*; 32, 33 **Magnoliaceae:** *Magnolia* cf *×loebneri*

Gr. 3: – 1, 2 **Ebenaceae:** *Diospyros lotus*; 35, 35a **Magnoliaceae:** *Liriodendron tulipifera*

Gr. 4: – 1 **Salicaceae:** *Populus nigra* var. *betulifolia*; 9 **Hamamelidaceae:** *Parrotia persica*; 12 **Hamamelidaceae:** *Sinowilsonia henryi*; 13 **Hamamelidaceae:** *Hamamelis virginiana*; 14 **Rosaceae:** *Prunus* sp.; 15 **Hamamelidaceae:** *Hamamelis virginiana*; 17 **Hamamelidaceae:** *Hamamelis vernalis*; 21 **Eucommiaceae:** *Eucommia ulmoides*; 22 **Hamamelidaceae:** *Corylopsis platypetala*; 25 **Hamamelidaceae:** *Corylopsis* sp.; 27 **Hamamelidaceae:** *Corylopsis veitchiana*; 28 **Hamamelidaceae:** *Hamamelis* ×*intermedia*; 31 **Eupteleaceae:** *Euptelea polyandra*; 33 **Hamamelidaceae:** *Parrotiopsis jacquemontiana*; 34 **Hamamelidaceae:** *Liquidambar styraciflua*; 37, 46 **Rosaceae:** *Prunus* sp.; 47 **Rosaceae:** *Cydonia oblonga*; 48 **Rosaceae:** *Prunus* sp.; 52 **Fabaceae:** *Cladrastis lutea* (Abgang Winter 2004); 53 ~~**Fabaceae:** *Robinia pseudacacia* (gefällt 2008)~~; 64 **Fabaceae:** *Sophora japonica*; 71 **Fabaceae:** *Gymnocladus dioica*; 72 **Fabaceae:** *Maackia amurensis*; 82 ~~**Fabaceae:** *Gleditsia sinensis* (gefällt 3/2008)~~; 89 **Rosaceae:** *Prunus dulcis*; 90 **Fabaceae:** *Sophora davidii*; 91 **Rosaceae:** *Prunus dulcis*; 92, 93 **Rosaceae:** *Cydonia oblonga*; 94 **Fabaceae:** *Gymnocladus dioica*; 95 **Rosaceae:** *Cydonia oblonga*; 97 **Rosaceae:** *Prunus padus*; 98 **Rosaceae:** *Prunus serotina*; 100 **Fabaceae:** *Cladrastis lutea*

Gr. 5: – 1 **Platanaceae:** *Platanus orientalis*; 21 **Magnoliaceae:** *Liriodendron tulipifera*

Gr. 6: – 12 **Rutaceae:** *Phellodendron amurense* ×*japonicum*; 37 **Juglandaceae:** *Pterocarya fraxinifolia*; 43 **Cornaceae** s.l. bzw. **Nyssaceae:** *Davidia involucrata*; 44 **Betulaceae:** *Alnus cordata*; 47 **Cornaceae** s.l. bzw. **Nyssaceae:** *Davidia involucrata*; 55 **Sapindaceae:** *Koelreuteria paniculata*; 56 **Rutaceae:** *Phellodendron japonicum*; 58 **Rutaceae:** *Phellodendron amurense*

Gr. 7: – 4 **Rosaceae:** *Crataegus* sp.; 5 **Styracaceae:** *Pterostyrax hispida*; 6 ~~**Rosaceae:** *Crataegus* sp. (gefällt 2008)~~; 7 **Rosaceae:** *Crataegus monogyna*; 8 **Rosaceae:** *Crataegus* sp.; 15, 16 **Rosaceae:** *Crataegus* sp.; 23 **Bignoniaceae:** *Campsis radicans*; 25 **Rosaceae:** *Pyracantha coccinea*; 28 **Rosaceae:** *Crataegus laevigata*; 38 **Rosaceae:** *Pyrus pyrifolia*; 39 **Rosaceae:** *Pyrus* sp.; 40 **Rosaceae:** *Crataegus* sp.; 41 **Rosaceae:** *Pseudocydonia sinensis*; 44 **Rosaceae:** *Crataegus* sp.; 201 **Sapindaceae:** *Koelreuteria paniculata*; 202 **Rosaceae:** ~~*Sorbus latifolia* (gefällt 1/2009)~~; 203 **Rutaceae:** *Tetradium daniellii*; 204 **Ginkgoaceae:** *Ginkgo biloba*

Gr. 8: – 1 **Araliaceae:** *Eleutherococcus sessiliflorus*; 2 **Araliaceae:** *Aralia spinosa*; 5 **Araliaceae:** *Hedera helix* var. *conglomerata*; 6 **Araliaceae:** *Hedera colchica*; 7 **Araliaceae:** *Hedera helix*; 10 **Rosaceae:** *Pyrus spinosa*; 12 **Rosaceae:** *Amelanchier spicata*; 13 **Rosaceae:** *Malus* sp.; 16 **Rosaceae:** *Amelanchier alnifolia*; 20 **Rosaceae:** *Sorbus hybrida*; 34 **Rosaceae:** *Malus baccata*; 35 **Rosaceae:** *Cotoneaster* sp.; 36 **Rosaceae:** *Cotoneaster* sp.; 37 **Rosaceae:** *Cotoneaster simonsii*; 38, 39 **Rosaceae:** *Cotoneaster niger*; 40 **Rosaceae:** *Malus baccata*; 54 **Rosaceae:** *Malus* sp.; 56 **Rosaceae:** *Pyrus salicifolia*; 61 **Rosaceae:** *Sorbus* sp.; 65 **Rosaceae:** *Mespilus germanica*; 66 **Rosaceae:** *Sorbus* sp. (Sturmschaden 2007); 70 **Rosaceae:** *Pyrus nivalis*; 71 **Rosaceae:** *Crataegus monogyna*; 82 **Corylaceae:** *Corylus colurna*; 83 **Rosaceae:** *Pyrus pyrifolia* var. *culta*; 84 **Rosaceae:** *Sorbus* sp.; 86 **Elaeagnaceae:** *Elaeagnus angustifolia*; 97 **Platanaceae:** *Platanus xhispanica*

Gr. 9: – 49, 53 **Oleaceae:** *Fraxinus excelsior*; 54 **Oleaceae:** *Chionanthus virginicus*; 60 **Oleaceae:** *Fontanesia phillyreoides* var. *fortunei*

Gr. 10: – 81 **Aceraceae:** *Acer campestre* ssp. *leiocarpon*; 87 **Aceraceae:** *Acer campestre*; 205 **Pinaceae:** *Pinus nigra*; 206 **Hippocastanaceae:** *Aesculus xcarnea*; 207 **Oleaceae:** *Fraxinus excelsior*

Gr. 11: – 14 **Ulmaceae:** *Celtis* sp.; 15 **Moraceae:** *Maclura pomifera*; 16 **Moraceae:** *Morus rubra*; 17 **Moraceae:** *Morus alba*; 18 **Ulmaceae:** *Celtis occidentalis*; 26 **Moraceae:** *Morus alba*; 27 **Ulmaceae:**

Celtis occidentalis (2008); 28 **Tiliaceae:** *Tilia* sp.; 208 **Rutaceae:** *Phellodendron amurense*; 209 **Fagaceae:** *Quercus cerris*

Gr. 12: – 3 **Moraceae:** *Morus* cf. *rubra*; 11 **Moraceae:** *Morus alba*; 15 **Rosaceae:** *Sorbus* sp.; 19, 23, 24, 25 **Rosaceae:** *Prunus* sp.; 42, 43 **Moraceae:** *Ficus carica*; 44 **Ulmaceae:** *Zelkova* sp.; 46 **Ulmaceae:** *Ulmus* sp.; 50, 51 **Ulmaceae:** *Zelkova serrata*; 52 **Ulmaceae:** *Celtis australis*; 55 **Ulmaceae:** *Celtis* sp.; 56 **Ulmaceae:** *Celtis tournefortii*; 57, 58 **Moraceae:** *Broussonetia papyrifera*

Gr. 13: – 11 **Aceraceae:** *Acer* cf. *opalus* ssp. *obtusatum*; 18 **Aceraceae:** *Acer davidii* ssp. *davidii*; 19 **Aceraceae:** *Acer palmatum*; 20a-k **Vitaceae:** *Vitis* sp. (cult.); 32 **Aceraceae:** *Acer rubrum*; 33 **Rutaceae:** *Tetradium daniellii*; 41 **Rutaceae:** *Tetradium rutaecarpa*; 43 **Aceraceae:** *Acer cappadocicum*; 54 **Aceraceae:** *Acer buergerianum*

Gr. 14: – 5 **Betulaceae:** *Betula pendula* 'Crispa'; 17 **Caprifoliaceae:** *Viburnum prunifolium*; 20 **Caprifoliaceae:** *Viburnum carlesii*; 24 **Caprifoliaceae:** *Viburnum rhytidophyllum*; 38 **Tiliaceae:** *Tilia* sp.

Gr. 15: – 1 **Platanaceae:** *Platanus xhispanica*; 3 **Salicaceae:** *Populus tremula*; 4 **Tiliaceae:** *Tilia xeuclora*; 5 **Fagaceae:** *Quercus cerris*; 6 **Hippocastanaceae:** *Aesculus hippocastanum*; 7 **Aceraceae:** *Acer hyrcanum* ssp. *cordisectum*; 8 **Oleaceae:** *Fraxinus ornus*; 9 **Fagaceae:** *Quercus imbricaria*; 10 **Pinaceae:** *Pinus nigra* ssp. *pallasiana*; 12 **Fagaceae:** *Quercus coccinea*; 13 **Juglandaceae:** *Carya cordiformis*; 15 **Ginkgoaceae:** *Ginkgo biloba*; 17 **Tiliaceae:** *Tilia xeuropaea*; 18 **Fabaceae:** *Gleditsia triacanthos*; 19, 20 **Pinaceae:** *Pinus* sp.; 21 **Pinaceae:** *Picea breweriana*; 22, 23 **Pinaceae:** *Picea* sp.; 24 **Moraceae:** *Maclura pomifera*; 25 **Betulaceae:** *Betula pendula*; 26 **Bignoniaceae:** *Catalpa bignonioides*; 27 **Oleaceae:** *Fraxinus latifolia*; 28 **Magnoliaceae:** *Liriodendron tulipifera*; 29 **Rosaceae:** *Prunus* sp.; 30 **Juglandaceae:** *Juglans regia*; 31 **Ulmaceae:** *Celtis* sp.; 32 **Fabaceae:** *Sophora japonica* (gefällt 2003); 33 **Ulmaceae:** *Ulmus xhollandica*; 34 **Magnoliaceae:** *Liriodendron tulipifera*

Gr. 16: – 7 **Celastraceae:** *Euonymus planipes*; 25 **Fagaceae:** *Nothofagus antarctica* (abgängig 2006); 26 **Betulaceae:** *Carpinus betulus*; 27 **Aquifoliaceae:** *Ilex aquifolium*; 28 **Fagaceae:** *Fagus sylvatica* 'Laciniata'; 36 **Fagaceae:** *Fagus sylvatica* f. *purpurea*; 37 **Fagaceae:** *Quercus pubescens*; 39 **Juglandaceae:** *Juglans nigra*; 40 **Juglandaceae:** *Juglans nigra*; 41 **Celastraceae:** *Euonymus alatus*; 42: **Betulaceae:** *Betula alleghaniensis*; 210 **Tiliaceae:** *Tilia tomentosa*; 211 **Scrophulariaceae:** *Paulownia tomentosa*

Gr. 17: – 6 **Betulaceae:** *Betula pubescens*; 10 **Betulaceae:** *Betula* sp.; 23 **Betulaceae:** *Alnus glutinosa*; 36 **Myricaceae:** *Myrica gale*; 41 **Betulaceae:** *Alnus glutinosa*; 42 **Betulaceae:** *Betula utilis*; 43 **Betulaceae:** *Betula* sp.; 44 **Betulaceae:** *Betula pendula*

Gr. 18: – 68-72 **Rhamnaceae:** *Rhamnus* sp.; 73 **Rhamnaceae:** *Frangula alnus*; 74 **Rhamnaceae:** *Paliurus spina-christi*; 75 ~~**Fagaceae:** *Quercus robur* (gefällt 3/2008);~~ 78 **Hippocastanaceae:** *Aesculus parviflora*; 79 , 80 **Fagaceae:** *Quercus* sp.; 81 **Elaeagnaceae:** *Elaeagnus angustifolia*; 82 **Elaeagnaceae:** *Elaeagnus* sp.; 83 **Fagaceae:** *Quercus* sp.; 84, 85 **Betulaceae:** *Corylus* sp.; 86 **Fagaceae:** *Quercus macrocarpa*; 87 **Fagaceae:** *Quercus robur*; 88 **Fagaceae:** *Quercus* sp.; 90 **Hippocastanaceae:** *Aesculus flava*; 91 **Aquifoliaceae:** *Ilex aquifolium*; 93 **Rutaceae:** *Zanthoxylum simulans*

Gr. 19: –

Gr. 20: – 1 **Cupressaceae:** *Thuja plicata*; 2 ~~**Cupressaceae:** *Thuja occidentalis* (gefällt 2005);~~ 3, 4 ~~**Cupressaceae:** *Platycladus orientalis* (gefällt 2005);~~ 6 ~~**Cupressaceae:** *Juniperus chinensis* (gefällt 2004);~~ 9 **Pinaceae:** *Pinus nigra*; 10 **Cupressaceae:** *Juniperus excelsa*; 11 ~~**Cupressaceae:** *Juniperus* sp. (gefällt 2005);~~ 12 ~~**Cupressaceae:** *Thuja occidentalis* (gefällt 2005);~~ 17 **Poaceae:** *Phyllostachys viridiglauescens*; 212 **Aceraceae:** *Acer tataricum*; 213 **Rosaceae:** *Prunus serrulata* 'Amanogawa'

Gr. 21: – 1 **Pinaceae:** *Pinus nigra*; 2 **Cupressaceae:** *Platycladus orientalis*; 4 **Pinaceae:** *Pinus nigra*;

5 **Pinaceae:** *Pinus flexilis*; 7 **Pinaceae:** *Pinus nigra*; 8 **Pinaceae:** *Picea abies*; 9 **Pinaceae:** *Pinus heldreichii*; 10 **Pinaceae:** *Pinus sylvestris*; 11 **Pinaceae:** *Pinus aristata*; 12 **Pinaceae:** *Larix laricina*; 13 **Pinaceae:** *Larix decidua*; 14 **Pinaceae:** *Picea abies*; 15 **Cupressaceae:** *Platycladus orientalis*; 16 **Taxaceae:** *Taxus baccata*; 17 **Pinaceae:** *Picea abies*; 18, 19 **Taxaceae:** *Taxus baccata*

Gr. 22: – 1 **Pinaceae:** *Pinus nigra*; 2 ~~**Aceraceae:** *Acer* sp. (gefällt 3/2008);~~ 3 **Pinaceae:** *Pinus* sp.; 4 **Rosaceae:** *Prunus avium* var. *duracina*; 5 **Rosaceae:** *Sorbus americana*; 6 **Pinaceae:** *Pinus sibirica*; 7 **Pinaceae:** *Pinus* sp.; 8 **Flacourtiaceae:** *Idesia polycarpa*; 9 **Taxaceae:** *Taxus baccata*; 10 ~~**Rosaceae:** *Prunus domestica* 'Wangenheims Frühzwetschke' (gefällt 2002);~~ 11 **Pinaceae:** *Pinus nigra*; 12 **Pinaceae:** *Pinus* sp.; 13 **Pinaceae:** *Pinus nigra*; 14 **Pinaceae:** *Pinus* sp.; 15 **Pinaceae:** *Picea pungens*; 16 **Pinaceae:** *Pinus* sp.; 17 **Cupressaceae:** *Calocedrus decurrens*; 18 **Rhamnaceae:** *Rhamnus* sp.; 19 **Pinaceae:** *Pinus* sp.; 20 **Pinaceae:** *Pinus monticola*; 21 **Pinaceae:** *Pinus nigra*; 22, 23 **Pinaceae:** *Pinus* sp.; 24, 25 **Pinaceae:** *Pinus nigra*; 26 ~~**Rosaceae:** *Malus domestica* 'Jonathan' (gefällt 2002);~~ 28 **Cornaceae:** *Cornus walteri*

Gr. 23: – 1 **Pinaceae:** *Pinus wallichiana*; 2 **Pinaceae:** *Pinus heldreichii*; 3 **Pinaceae:** *Picea orientalis*; 4 **Pinaceae:** *Picea asperata* agg.; 5 **Pinaceae:** *Picea omorika*; 6 **Pinaceae:** *Picea abies*; 9 **Pinaceae:** *Picea omorika*; 10 **Pinaceae:** *Picea glauca*; 12 **Pinaceae:** *Abies concolor*; 13 **Taxodiaceae:** *Metasequoia glyptostroboides*; 14, 15 **Taxodiaceae:** *Sequoiadendron giganteum*; 16 **Cupressaceae:** *Juniperus virginiana*; 17 **Taxaceae:** *Torreya* cf. *nucifera* x *californica*; 18 **Pinaceae:** *Abies pinsapo*; 19 **Pinaceae:** *Abies* sp.; 20 **Pinaceae:** *Picea pungens*; 21 **Pinaceae:** *Picea schrenkiana*; 22 **Pinaceae:** *Picea* sp.; 24 **Pinaceae:** *Pinus* cf. *wallichiana*; 25 **Taxodiaceae:** *Sequoiadendron giganteum*; 214 **Salicaceae:** *Populus nigra*; 215 **Rosaceae:** *Prunus mahaleb*

Gr. 24: – 1 ~~**Pinaceae:** *Pinus contorta* (gefällt 2005);~~ 2 ~~**Pinaceae:** *Pinus jeffreyi* (gefällt 2005);~~ 3 **Ginkgoaceae:** *Ginkgo biloba*; 4 ~~**Pinaceae:** *Picea pungens* (gefällt 2005);~~ 5 **Ginkgoaceae:** *Ginkgo biloba*; 6 **Pinaceae:** *Picea pungens*; 7 **Aceraceae:** *Acer campestre*; 8 **Fagaceae:** *Quercus* sp.; 9, 10 **Taxaceae:** *Taxus baccata*; 11 **Pinaceae:** *Abies* sp.

Gr. 25: – 1 **Fabaceae:** *Robinia pseudacacia*; 2 **Pinaceae:** *Picea abies*; 3 ~~**Taxaceae:** *Taxus baccata* (gefällt ca. 2006);~~ 4 **Aquifoliaceae:** *Ilex aquifolium*; 5, 6 **Taxaceae:** *Taxus baccata*; 7 ~~**Rosaceae:** *Pyrus communis* 'Le Lectier' (gefällt ca. 2006);~~ 8 **Cupressaceae:** *Calocedrus decurrens*; 9 **Taxaceae:** *Taxus baccata*; 10 **Pinaceae:** *Pinus sylvestris*; 11 ~~**Pinaceae:** *Abies* sp. (gefällt 2008);~~ 12, 13 **Taxaceae:** *Taxus baccata*; 14 **Pinaceae:** *Pinus nigra*; 15, 16, 17, 18 **Taxaceae:** *Taxus baccata*; 19 **Cupressaceae:** *Calocedrus decurrens*; 20 **Pinaceae:** *Picea orientalis*; 21 **Cupressaceae:** *Calocedrus decurrens*; 22 **Pinaceae:** *Pinus nigra*; 23, 24 **Taxaceae:** *Taxus baccata*; 25 **Pinaceae:** *Pinus nigra*; 26 **Fagaceae:** *Quercus* sp.; 27 **Pinaceae:** *Abies* sp.; 28 ~~**Pinaceae:** *Abies* sp. (gefällt ca. 2006);~~ 29 **Pinaceae:** *Pseudotsuga menziesii*; 30 ~~**Pinaceae:** *Pseudotsuga menziesii* (gefällt ca. 2006);~~ 31, 32 **Pinaceae:** *Abies* sp.; 33 **Pinaceae:** *Picea pungens*

Gr. 25a: – 216 **Rosaceae:** *Prunus* sp.; 217 **Rosaceae:** *Prunus cerasifera* 'Nigra'; 218 **Rosaceae:** *Prunus* sp.; 501 **Pinaceae:** *Cedrus atlantica* f. *glauca*; 502 **Taxodiaceae:** *Cryptomeria japonica*; ~~503 **Taxodiaceae:** *Cryptomeria japonica* (nach Sturmschaden gefällt 2008);~~ 504 **Cupressaceae:** *Thuja occidentalis*; 505 **Cupressaceae:** *Thujopsis dolabrata*; 506 **Cupressaceae:** *Chamaecyparis lawsoniana*; 507 **Cupressaceae:** *Chamaecyparis* sp.; 508 **Cupressaceae:** *Thuja* cf. *occidentalis*; 509, 510 **Cupressaceae:** *Chamaecyparis lawsoniana*; 511 **Pinaceae:** *Abies cephalonica*; 512, 513, 514 **Pinaceae:** *Picea pungens* f. *glauca*; 516 **Pinaceae:** *Abies* cf. *numidica*; 517 **Taxodiaceae:** *Cryptomeria japonica*

Gr. 26: – 1 **Cupressaceae:** *Thujopsis dolabrata*; 2 **Pinaceae:** *Abies* cf. *forrestii*; 3 **Pinaceae:** *Abies pinsapo*; 4 **Pinaceae:** *Abies* cf. *xborisii-regis*; 5, 6, 8, 9, 10, 11 **Pinaceae:** *Tsuga canadensis*; 12 **Pinaceae:** *Picea omorika*; 13 **Pinaceae:** *Abies* cf. *cephalonica*; 14 **Pinaceae:** *Abies pinsapo*; 15 **Pinaceae:** *Pinus nigra*; 16 **Pinaceae:** *Abies forrestii*; 17 **Cupressaceae:** *Chamaecyparis pisifera*; 19 **Pinaceae:** *Pinus wallichiana*; 20 **Pinaceae:** *Abies* cf. *forrestii*

Gr. 27: – 1 **Tiliaceae:** *Tilia* sp.; 2 **Taxaceae:** *Taxus baccata* 3 **Pinaceae:** *Pinus nigra*; 4 **Pinaceae:**

Pinus sp.; 5, 6 **Pinaceae:** *Pseudotsuga menziesii*; 7 **Cupressaceae:** **Cupressocyparis leylandii*; 8 **Pinaceae:** *Abies* sp.; 9 **Pinaceae:** *Picea pungens*; 10 **Pinaceae:** *Abies* sp.; 11 **Cupressaceae:** *Chamaecyparis obtusa* 'Nana'; 12 **Cupressaceae:** *Chamaecyparis pisifera*; 13 **Pinaceae:** *Larix kaempferi*; 14 **Cupressaceae:** *Chamaecyparis lawsoniana*

Gr. 28: – 1 **Cupressaceae:** 2 **Fagaceae:** *Quercus robur* 'Fastigiata'; 3 **Taxaceae:** *Taxus baccata* 'Fastigiata'; 4 **Oleaceae:** *Jasminum fruticans*; 5 **Caesalpiniaceae:** *Gymnocladus dioica*; 6 **Pinaceae:** *Pinus nigra*; 7 **Taxaceae:** *Taxus cuspidata*; 8 **Pinaceae:** *Picea* sp.; 9 **Taxaceae:** *Taxus* **media* 'Hicksii'; 10 **Taxodiaceae:** *Sequoiadendron giganteum*; ~~41 **Vitaceae:** *Vitis riparia* (Trägerbaum zusammengebrochen);~~ 42 ~~**Taxaceae:** *Taxus baccata* (gefällt 3/2008);~~ 13 **Cephalotaxaceae:** *Cephalotaxus harringtonia*; 15 **Taxodiaceae:** *Metasequoia glyptostroboides*; 16 **Pinaceae:** *Pinus strobus*; 17 **Cornaceae:** *Aucuba japonica*; 18 **Tiliaceae:** *Tilia* **juranyana*; 20, 21, 22 **Betulaceae:** *Corylus avellana* 'Contorta'; 23 **Berberidaceae:** *Mahonia aquifolium*; 24a-c **Pinaceae:** *Pinus mugo*; 25 **Pinaceae:** *Pinus strobus*; 29-32 **Oleaceae:** *Syringa reticulata* var. *amurensis*; 33 **Oleaceae:** *Syringa* sp.; 34 **Oleaceae:** *Syringa amurensis*; 36 **Oleaceae:** *Syringa sweginzowii*; 37 **Pinaceae:** *Pinus strobus*; 41 **Pinaceae:** *Cedrus deodara*; 42 **Taxaceae:** *Taxus baccata*; 43 **Taxodiaceae:** *Sequoia sempervirens*

Gr. 29: – 1 **Aceraceae:** *Acer opalus* ssp. *obtusatum*; 2 **Hippocastanaceae:** *Aesculus hippocastanum*; 3 **Bignoniaceae:** *Catalpa* sp.; 4 **Bignoniaceae:** *Catalpa bungei*; 5, 6 **Bignoniaceae:** *Catalpa* sp.; 7 **Bignoniaceae:** *Catalpa ovata*; 8 **Stachyuraceae:** *Stachyurus praecox*; 9 **Ulmaceae:** *Celtis occidentalis*; 11 **Tiliaceae:** *Tilia* sp.; 12 **Aceraceae:** *Acer monspessulanum*; 13 **Bignoniaceae:** *Catalpa bignonioides*; 14 **Rosaceae:** *Aronia arbutifolia*; 15, 16, 17 **Magnoliaceae:** *Magnolia* sp.; 18 **Magnoliaceae:** *Magnolia* cf. *kobus*

Gr. 30: – 15 **Sapindaceae:** *Koelreuteria paniculata*; 16 **Oleaceae:** *Syringa vulgaris*; 19 **Caprifoliaceae:** *Viburnum opulus*; 20 **Caprifoliaceae:** *Viburnum farreri*; 21 **Cornaceae** s.l. bzw. **Nyssaceae:** *Davidia involucrata*; 22 **Caprifoliaceae:** *Viburnum rhytidophyllum*; 23 **Hamamelidaceae:** *Hamamelis virginiana*; 24 **Betulaceae:** *Ostrya carpinifolia*; 25 **Hippocastanaceae:** *Aesculus hippocastanum*; 26 **Aceraceae:** *Acer* cf. *opalus* ssp. *obtusatum*; 28 **Hamamelidaceae:** *Liquidambar* sp.; 44 **Aceraceae:** *Acer platanoides*

Gr. 31: – 3, 6, 13, 18 **Pinaceae:** *Pinus nigra*; 19 **Cupressaceae:** 21 **Cupressaceae:** *Thuja* sp.; 22 **Sapindaceae:** *Xanthoceras sorbifolium*; 23 **Fabaceae:** **Laburnocytisus* 'Adamii'; 26 **Oleaceae:** *Fraxinus oxycarpa*; 29 **Rosaceae:** *Malus* **purpurea* 'Eleyi'; ~~32 **Aceraceae:** *Acer platanoides* (gefällt 2004);~~ 33 **Fagaceae:** *Quercus* sp.; 34 **Aceraceae:** *Acer campestre*; 35 **Fagaceae:** *Quercus* sp.; 40 **Fabaceae:** *Caragana* cf. *boissii*; 41 **Fagaceae:** *Quercus* sp.; 42 **Ebenaceae:** *Diospyros* cf. *virginiana*; 43 **Fagaceae:** *Castanea crenata*; 44-46: **Annonaceae:** *Asimina triloba*; 48 **Lauraceae:** *Sassafras albidum*; 50 **Fagaceae:** *Quercus* sp.; 51 **Verbenaceae:** *Clerodendrum bungei*; 53 **Rosaceae:** *Prunus americana*; 54 **Taxodiaceae:** *Taxodium distichum*; 55 **Rosaceae:** *Prunus avium*; 56 **Pinaceae:** *Pinus nigra*; 58 **Fabaceae:** *Laburnum anagyroides*; 61 **Pinaceae:** *Pinus nigra*

Gr. 32: – 2 **Fabaceae**: *Robinia pseudacacia*; 4 ~~**Tiliaceae**: *Tilia tomentosa* (gefällt 2005); 6 **Aceraceae**: *Acer platanoides* (gefällt 2005); 9 **Cornaceae**: *Cornus florida*; 12 **Styracaceae**: *Styrax obassia*; 13 **Taxaceae**: *Taxus baccata*; 29 **Pinaceae**: *Larix decidua*; 30, 31 **Cupressaceae**: *Thuja occidentalis*; 32 **Cupressaceae**: *Chamaecyparis lawsoniana*; 33 ~~**Cupressaceae**: *Chamaecyparis* sp. (gefällt 2007); 34 **Cupressaceae**: *Chamaecyparis lawsoniana*; 35 **Pinaceae**: *Pinus nigra*; 37 **Cupressaceae**: *Chamaecyparis pisifera* 'Squarrosa'; 38 **Cupressaceae**: *Chamaecyparis lawsoniana*; 39 **Cupressaceae**: *Chamaecyparis pisifera* 'Squarrosa'; 40 **Cupressaceae**: *Chamaecyparis lawsoniana*; 41 **Taxaceae**: *Taxus baccata*; 42 **Pinaceae**: *Picea abies*; 43, 44 **Pinaceae**: *Pinus sylvestris*; 47 **Pinaceae**: *Picea* sp.; 48 **Pinaceae**: *Pinus nigra*; 49, 50, 52, 54 **Pinaceae**: *Picea abies*; 55 **Pinaceae**: *Pinus nigra*; 56 ~~**Pinaceae**: *Picea abies* (gefällt 2007); 58, 59 **Pinaceae**: *Picea abies*; 60 **Pinaceae**: *Picea glauca*; 62 **Pinaceae**: *Picea engelmannii*; 64 **Pinaceae**: *Picea glehnii*; 65 **Pinaceae**: *Picea purpurea*; 67 ~~**Pinaceae**: *Picea engelmannii* (gefällt 2007); 68 **Pinaceae**: *Picea abies*; 69 **Aceraceae**: *Acer pseudoplatanus*; 72 **Cupressaceae**: *Calocedrus decurrens*; 73, 74 **Aceraceae**: *Acer pseudoplatanus*; 75, 76 **Fabaceae**: *Robinia pseudacacia*; 77 **Pinaceae**: *Picea abies*; 78 **Taxaceae**: *Taxus baccata*; 79 **Verbenaceae**: *Clerodendrum trichotomum*; 81 **Cupressaceae**: *Thujopsis dolabrata*~~~~~~~~

Gr. 33: – 1 **Hippocastanaceae**: *Aesculus hippocastanum*; 3 **Fabaceae**: *Robinia pseudacacia*; 8 **Aceraceae**: *Acer platanoides*; 20 **Cornaceae**: *Comus florida* f. *rubra*

Gr. 34: – 1, 2 **Aceraceae**: *Acer* sp.; 3 **Fabaceae**: *Robinia pseudacacia*; 4, 5 **Aceraceae**: *Acer* sp.; 6 **Fagaceae**: *Quercus petraea* 'Mespilifolia'; 7 **Scrophulariaceae**: *Paulownia* cf. *tomentosa*; 8 **Rosaceae**: *Malus* sp.; 9 **Moraceae**: *Ficus carica*; 10 **Caesalpiniaceae**: *Cercis siliquastrum*; 11 **Aceraceae**: *Acer pseudoplatanus*

Gr. 35: – 1 **Fagaceae**: *Quercus pubescens*; 2 **Fagaceae**: *Quercus cerris*; 3a-c-m **Pinaceae**: *Pinus* cf. *heldreichii* (3d-m gefällt 2008); 4 **Aceraceae**: *Acer monspessulanum*; 5 **Hippocastanaceae**: *Aesculus hippocastanum*; 6, 7 **Fabaceae**: *Laburnum anagyroides*; 11 **Fabaceae**: *Cercis siliquastrum*; 15 **Moraceae**: *Maclura pomifera*; 18 **Aceraceae**: *Acer monspessulanum*; 20-22 **Cercidiphyllaceae**: *Cercidiphyllum japonicum* var. *magnificum*; 29 **Aceraceae**: *Acer monspessulanum*; 39-42 **Paeoniaceae**: *Paeonia* sp.; 49 **Fagaceae**: *Quercus robur* 'Fastigiata'; 50 **Cornaceae**: *Comus mas*; 54 ~~**Pinaceae**: *Picea abies* (gefällt 2008); 52 **Fabaceae**: *Laburnum anagyroides*; 53 ~~**Aceraceae**: *Acer platanoides* (gefällt 2005); 54 **Tiliaceae**: *Tilia platyphyllos*; 55 **Anacardiaceae**: *Cotinus coggygria*; 56 **Rosaceae**: *Prunus mahaleb*; 59 **Aceraceae**: *Acer monspessulanum*; 63, 64 **Grossulariaceae**: *Ribes* sp.; 65 **Rutaceae**: *Oxira japonica*; 67 **Tiliaceae**: *Tilia platyphyllos*; 68 **Pinaceae**: *Pinus* cf. *heldreichii*; 69, 70 **Oleaceae**: *Syringa vulgaris*; 71 **Aceraceae**: *Acer platanoides*; 76a-i ~~**Pinaceae**: *Pinus* sp. (gefällt 2008)~~~~~~

Gr. 36: – 2 **Tiliaceae**: *Tilia platyphyllos*; 3 **Celastraceae**: *Euonymus europaeus*; 4 **Moraceae**: *Maclura pomifera*; 6 **Rosaceae**: *Malus floribunda*; 7 **Rosaceae**: *Prunus padus*; 12 **Rosaceae**: *Malus* sp.; 13 **Rosaceae**: *Sorbus umbellata*; 14 **Rosaceae**: *Cydonia oblonga*; 15 **Rosaceae**: *Pyrus ussuriensis*; 16 **Rosaceae**: *Malus sylvestris*; 17 **Calycanthaceae**: *Calycanthus occidentalis*; 18 **Aceraceae**: *Acer platanoides*; 25 **Rosaceae**: *Prunus avium*; 26 ~~**Rosaceae**: *Sorbus* sp. (abgängig; entfernt 2006); 31 **Rosaceae**: *Sorbus aucuparia* (abgängig; entfernt 2006); 32 **Fagaceae**: *Quercus* sp.~~

Gr. 37: – 1 **Aceraceae**: *Acer monspessulanum*; 2 **Aceraceae**: *Acer pseudoplatanus*; 3 **Ulmaceae**: *Zelkova* sp.; 5 **Fagaceae**: *Quercus* sp.; 6 **Aceraceae**: *Acer platanoides*; 8 **Rosaceae**: *Malus sylvestris*; 9 **Rosaceae**: *Sorbus* sp.; 11 **Tiliaceae**: *Tilia* sp.; 13 **Aceraceae**: *Acer platanoides*; 14 **Betulaceae**: *Corylus colurna*; 15 **Aceraceae**: *Acer platanoides*; 16 **Aceraceae**: *Acer campestre*; 19, 20 **Aceraceae**: *Acer monspessulanum*; 21 **Fagaceae**: *Quercus* cf. *pubescens*; 24 **Celastraceae**: *Euonymus verrucosa*; 25 ~~**Caprifoliaceae**: *Viburnum lantana* (entfernt ca. 2006); 26 **Cornaceae**: *Comus mas*; 27 **Rosaceae**: *Crataegus monogyna*; 30, 31, 34 **Rosaceae**: *Prunus* sp.; 45a-v **Fagaceae**: *Fagus sylvatica*; 49 **Aceraceae**: *Acer campestre*; 99 **Ebenaceae**: *Diospyros lotus*~~

Gr. 38: – 2a-l **Cupressaceae**: *Juniperus communis*; 4 **Aceraceae**: *Acer monspessulanum*; 5 ~~**Aceraceae**: *Acer platanoides* (gefällt 2005); 6 ~~**Aceraceae**: *Acer campestre* (gefällt 2005); 7 **Betulaceae**: *Ostrya carpinifolia*; 8 ~~**Aceraceae**: *Acer monspessulanum* (gefällt 2005); 10, 11, 12 **Pinaceae**: *Pinus nigra*~~~~~~

Gr. 39: – 2 **Aceraceae**: *Acer platanoides*; 3 **Aceraceae**: *Acer monspessulanum*; 4 **Fagaceae**: *Quercus robur*; 5 **Salicaceae**: *Salix* sp.; 6 **Betulaceae**: *Betula pendula*; 7 **Salicaceae**: *Salix* sp.; 9 **Salicaceae**: *Salix* sp.; 10 **Betulaceae**: *Betula pendula*; 11 **Betulaceae**: *Alnus glutinosa*; 12 **Salicaceae**: *Salix* cf. *alba* 'Tristis'; 14 **Rosaceae**: *Exochorda* sp.; 15, 16 **Salicaceae**: *Salix* sp.

Gr. 40: – 1 **Rosaceae**: *Sorbus austriaca*; 3 **Oleaceae**: *Fraxinus excelsior*

Gr. 41: – Pflanzen aus der pannonischen Steppenflora

Gr. 42: – 1 **Tiliaceae**: *Tilia cordata*; 3 **Oleaceae**: *Fraxinus americana*; 4 **Fagaceae**: *Quercus* sp.; 7 **Taxaceae**: *Taxus baccata*; 8 **Fabaceae**: *Gleditsia triacanthos* (gefällt 2005); 9a-c **Pinaceae**: *Pinus* sp. (gefällt 2005); 10 a,b; e-g **Pinaceae**: *Pinus* sp. (c-g gefällt 2005)

Gr. 43: – 3 **Fagaceae**: *Castanea sativa*; 14 **Aceraceae**: *Acer monspessulanum*; 15 **Fabaceae**: *Laburnum anagyroides*; 16 **Fabaceae**: *Cercis siliquastrum*; 21 **Fabaceae**: *Laburnum anagyroides*; 22 **Rosaceae**: *Sorbus aucuparia*

Gr. 44: – 1 **Betulaceae**: *Corylus colurna*; 2 **Tiliaceae**: *Tilia tomentosa*; 3 **Taxaceae**: *Taxus baccata*; 6 **Pinaceae**: *Picea* sp.; 7 **Cupressaceae**: *Juniperus communis*; 8 **Pinaceae**: *Pinus heldreichii*; 9 **Pinaceae**: *Abies cephalonica*; 10 **Pinaceae**: *Pinus ponderosa*; 11 **Pinaceae**: *Abies cephalonica*

Gr. 45: – 1 **Ericaceae**: *Rhododendron luteum*; 3, 4, 5, 6, 7 **Pinaceae**: *Pinus nigra*; 8 **Oleaceae**: *Syringa vulgaris* (entfernt 4/2008); 9 **Fabaceae**: *Robinia pseudacacia* (gefällt 2/2008); 10, 11, 12 **Pinaceae**: *Pinus* cf. *mugo*; 14 **Buxaceae**: *Buxus* cf. *sempervirens*; 15 **Aceraceae**: *Acer monspessulanum*; 46a **Pinaceae**: *Picea abies* (gefällt 01/2008); 79 **Pinaceae**: *Pinus nigra*; 99, 100, 101 **Rosaceae**: *Prunus padus*; 102 **Pinaceae**: *Abies nordmanniana*; 103 **Pinaceae**: *Abies cephalonica*

Gr. 46: – 24 **Tiliaceae**: *Tilia platyphyllos*; 32 **Pinaceae**: *Pinus nigra* (Sturmschaden 3/2008); 36 **Tiliaceae**: *Tilia tomentosa*; 40 **Taxaceae**: *Taxus baccata*; 46 **Pinaceae**: *Larix decidua* (gefällt ca. 2003); 49 **Pinaceae**: *Picea abies* (gefällt 2008); 51 **Pinaceae**: *Picea abies* (gefällt 2008); 52 **Pinaceae**: *Picea abies*; 54 **Pinaceae**: *Larix decidua* (gefällt ca. 2003); 55 **Pinaceae**: *Picea abies*; 57 **Pinaceae**: *Picea abies*; 59 **Tiliaceae**: *Tilia* sp.; 63 **Salicaceae**: *Salix* sp.; 64 **Pinaceae**: *Picea abies*; 66 **Pinaceae**: *Picea abies*; 68, 69 **Betulaceae**: *Betula pendula* (gefällt 2005); 70 **Fabaceae**: *Laburnum anagyroides*; 73 **Taxaceae**: *Taxus baccata*; 74 **Pinaceae**: *Pinus nigra*; 76 **Betulaceae**: *Alnus viridis*

Gr. 47: – 8a-f **Pinaceae**: *Pinus sylvestris*; 9 **Pinaceae**: *Pinus nigra*; 17a-f **Pinaceae**: *Larix decidua*; 47g, h **Pinaceae**: *Larix decidua* (gefällt 2005); 18 **Rosaceae**: *Prunus* cf. *fenzliana*; 19 **Cupressaceae**: *Thuja occidentalis*; 34 **Rosaceae**: *Sorbus domestica*

Gr. 48 (Nutzpflanzengruppe inkl. EN): – 1 **Aceraceae**: *Acer negundo* (gefällt 2003); 2 **Aceraceae**: *Acer negundo*; 3 **Betulaceae**: *Betula pendula* (gefällt 2003); 4 **Ebenaceae**: *Diospyros lotus*

Gr. 49 (Allee Nutzpflanzen AN): – 1 **Scrophulariaceae**: *Paulownia* cf. *tomentosa*; 2 **Tiliaceae**: *Tilia americana*; 3 **Bignoniaceae**: *Catalpa bignonioides*; 4 **Aceraceae**: *Acer* sp.; 5 **Tiliaceae**: *Tilia* sp.; 6 **Aceraceae**: *Acer tataricum* ssp. *aidzuense*; 7 **Aceraceae**: *Acer griseum*; 8 **Fabaceae**: *Gymnocladus dioica*; 9 **Bignoniaceae**: *Catalpa bungei*; 10 **Betulaceae**: *Ostrya carpinifolia*; 11 **Salicaceae**: *Populus tremula*; 12 **Salicaceae**: *Populus nigra* 'Italica'; 43 **Salicaceae**: *Populus simonii* (gefällt 3/2008)

Gr. 50 (rund um die Gewächshäuser GW): – 1 **Hamamelidaceae**: *Parrotia persica*; 2 **Aceraceae**: *Acer platanoides* 'Crimson King';

Gr. 51 (Alpinum ALP): – 1 **Pinaceae**: *Larix sibirica*; 2 **Betulaceae**: *Corylus avellana*; 3, 4 **Betulaceae**: *Betula* sp.; 5, 6 **Pinaceae**: *Pinus mugo*; 7 **Rosaceae**: *Sorbus* sp.; 8 **Rosaceae**: *Amelanchier ovalis*; 9, 10, 11 **Pinaceae**: *Pinus mugo*; 12 **Betulaceae**: *Alnus alnobetula*; 13 **Pinaceae**: *Pinus mugo*; 14 **Betulaceae**: *Betula humilis*; 15 **Pinaceae**: *Pinus mugo*; 16 **Salicaceae**: *Salix appendiculata*; 17 **Pinaceae**: *Pinus mugo* ssp. *pumilio*; 18, 19, 20 **Pinaceae**: *Pinus cembra*; 21 **Pinaceae**: *Pinus cembra*; 22 **Pinaceae**: *Pinus mugo*; 23 **Taxaceae**: *Taxus baccata*; 24 **Pinaceae**: *Pinus mugo*

Gr. 52 (Morphologische Gruppe, ehemals BIO [z.T.]): 18, 19 **Caesalpiniaceae:** *Cercis siliquastrum*; 20 **Fabaceae:** *Laburnum anagyroides*; 21 **Rutaceae:** *Ptelea trifoliata*; 22 **Fabaceae:** *Robinia pseudacacia*; 23 **Rosaceae:** *Rosa canina*; 24 **Fabaceae:** *Amorpha fruticosa*; 25 **Berberidaceae:** *Berberis vulgaris*; 26, 27, 28 **Tamaricaceae:** *Tamarix tetrandra*

Gr. 53 (Biologische Gruppe BIO [z.T.]): – 1 **Aceraceae:** *Acer* sp.; 2 **Sapindaceae:** *Koelreuteria paniculata*; 3, 4 **Aceraceae:** *Acer* sp.; 5 **Fabaceae:** *Robinia pseudacacia*; 6, 7, 8 **Rosaceae:** *Prunus cerasifera* 'Nigra'; 9 **Cornaceae:** *Cornus mas*; 10 **Aceraceae:** *Acer negundo*; 41 **Rosaceae:** *Prunus* sp. (gefällt 3/2008); 12 **Aceraceae:** *Acer negundo*; 13 **Aceraceae:** *Acer* sp.; 44, 45, **Pinaceae:** *Picea abies* (gefällt 3/2008); 16 **Pinaceae:** *Picea abies*; 17 **Rosaceae:** *Prunus cerasifera* 'Nigra';

Gr. 54 (Betriebshof BH): – 1 **Betulaceae:** *Betula pendula* (3/2008); 2 **Aceraceae:** *Acer* sp.; 3 **Oleaceae:** *Fraxinus excelsior*; 4, 5, 6 **Tiliaceae:** *Tilia* sp.; 7 **Betulaceae:** *Carpinus betulus*; 29, 30

Fagaceae: *Nothofagus antarctica*; 31 **Betulaceae:** *Betula pendula*; 32 **Rosaceae:** *Sorbus* sp.; 33 **Caprifoliaceae:** *Lonicera* sp.; 34 **Pinaceae:** *Larix sibirica*; 35, 36, 37 **Betulaceae:** *Betula pendula*; 38 **Salicaceae:** *Salix* sp.; 39 **Pinaceae:** *Picea abies*; 40 **Betulaceae:** *Corylus avellana*; 41 **Fabaceae:** *Gymnocladus dioica* (gefällt 3/2008); 42 **Aceraceae:** *Acer pseudoplatanus*

Gr 55 (Kalthauspflanzen-Sommerquartier): -

Gr. 56 (Experimentalgarten EXP): – 1 **Fagaceae:** *Fagus sylvatica* 'Purpurea'; 2 **Betulaceae:** *Betula* sp.; 3 **Rosaceae:** *Mespilus germanica*; 4 **Betulaceae:** *Betula utilis*; 5 **Betulaceae:** *Betula* sp.; 6 **Moraceae:** *Ficus carica*; 7 **Betulaceae:** *Betula* sp.; 8 **Pinaceae:** *Pinus nigra*

Gr. 57 (Parkplatz PP): – 1 **Aceraceae:** *Acer pseudoplatanus*; 2 **Rosaceae:** *Cydonia oblonga*; 3 **Betulaceae:** *Betula* sp.; 4 **Betulaceae:** *Corylus colurna*; 5 **Aceraceae:** *Acer saccharinum* 'Laciniatum Wieri'; 6, 7, 8 **Taxaceae:** *Taxus* sp.; 9, 10 **Rosaceae:** *Prunus laurocerasus*; 11 **Taxaceae:** *Taxus baccata* 'Fastigiata'; 12 **Cornaceae:** *Cornus controversa*; 13, 14 **Taxaceae:** *Taxus baccata*; 15 **Caprifoliaceae:** *Viburnum rhytidophyllum*; 16 **Aceraceae:** *Acer davidii*; 17 **Taxaceae:** *Taxus baccata*; 18 **Caprifoliaceae:** *Viburnum rhytidophyllum*; 19 **Aceraceae:** *Acer* sp.; 20 **Rosaceae:** *Prunus* sp.; 21 **Flacourtiaceae:** *Idesia polycarpa*

Gr. 58 (Grünfläche am Institut IGF): – 1 **Pinaceae:** *Picea omorika*; 2 **Rosaceae:** *Prunus* sp. (gefällt ca. 2006); 8 **Cornaceae:** *Cornus mas*; 13 **Aceraceae:** *Acer* sp.; 44, 45 **Cupressaceae:** *Chamaecyparis* sp. (gefällt 2008); 17 **Rosaceae:** *Prunus* sp.; 18 **Caprifoliaceae:** *Viburnum rhytidophyllum*; 19 **Tiliaceae:** *Tilia* sp.; 20 **Aceraceae:** *Acer* sp. (gefällt 2/2008); 21 **Tiliaceae:** *Tilia* sp.; 22 **Tiliaceae:** *Tilia* sp. (gefällt 2/2008); 23 **Tiliaceae:** *Tilia tomentosa*; 24 **Aceraceae:** *Acer* sp.

Gr. 59 (Institutsvorgarten IV): – 1 **Taxaceae:** *Taxus baccata*; 2 **Tiliaceae:** *Tilia x euchlora*; 3a-g **Taxaceae:** *Taxus baccata*; 40 **Aceraceae:** *Acer* sp. (gefällt 2004); 41 **Aceraceae:** *Acer pseudoplatanus* (gefällt 2008); 12 **Aceraceae:** *Acer platanoides*; 13 **Platanaceae:** *Platanus x hispanica*

Gr. 60 (Geographische Gruppe GEO): – 1 **Ginkgoaceae:** *Ginkgo biloba*; 2 **Sapindaceae:** *Koelreuteria paniculata*; 3, 4 **Moraceae:** *Broussonetia papyrifera* (gefällt ca. 2004); 5 **Cornaceae:** *Cornus controversa*; 6 **Aceraceae:** *Acer campestre*; 7 **Moraceae:** *Broussonetia papyrifera*; 8 **Flacourtiaceae:** *Idesia polycarpa*; 9 **Cornaceae:** *Cornus controversa*; 10 **Cercidiphyllaceae:** *Cercidiphyllum japonicum*; 11, 12 **Aceraceae:** *Acer negundo*; 13 **Ulmaceae:** *Celtis occidentalis*; 14 **Juglandaceae:** *Juglans nigra* (vel aff.); 15 **Platanaceae:** *Platanus x hispanica*; 16 **Aceraceae:** *Acer* sp.; 17 **Fabaceae:** *Gymnocladus dioica*; 18 **Juglandaceae:** *Juglans nigra*; 19 **Betulaceae:** *Corylus avellana*; 20 **Salicaceae:** *Salix* sp.; 21 **Tiliaceae:** *Tilia platyphyllos*; 22 **Caprifoliaceae:** *Sambucus nigra*; 23 **Betulaceae:** *Carpinus betulus*; 24 **Fagaceae:** *Fagus sylvatica* (gefällt ca. 2004); 25 **Betulaceae:** *Carpinus betulus*; 26 **Aceraceae:** *Acer* sp.; 27 **Tiliaceae:** *Tilia* sp.; 28 **Cornaceae:** *Cornus mas*; 29 **Aceraceae:** *Acer pseudoplatanus*; 30 **Taxaceae:** *Taxus baccata*; 31 **Tiliaceae:** *Tilia* sp.; 32 **Rosaceae:** *Amelanchier* sp.; 33 **Oleaceae:** *Fraxinus excelsior*; 34 **Aceraceae:** *Acer* sp.; 35 **Taxaceae:** *Taxus baccata*; 36, 37 **Rosaceae:** *Crataegus* sp.; 38 **Aceraceae:** *Acer* sp.; 39 **Fagaceae:** *Fagus sylvatica* (gefällt 4/2008); 40 **Fagaceae:** *Fagus sylvatica*; 41 **Tiliaceae:** *Tilia* sp.; 42 **Tiliaceae:** *Tilia* sp. (gefällt ca. 2004); 43 **Fagaceae:** *Quercus spec.*; 44 **Betulaceae:** *Corylus colurna*; 45 **Tiliaceae:** *Tilia* sp.; 46 **Tiliaceae:** *Tilia* sp. (gefällt 2007); 47 **Tiliaceae:** *Tilia* sp.; 48 **Aceraceae:** *Acer campestre*; 49 **Aceraceae:** *Acer opalus* ssp. *obtusatum*; 50 **Betulaceae:** *Betula albosinensis*; 51, 52, 53 **Ulmaceae:** *Celtis tournefortii*; 54 **Rosaceae:** *Pyrus* sp.; 55 **Aceraceae:** *Acer* sp.; 56 **Betulaceae:**

Betula nigra; 57 **Ebenaceae**: *Diospyros lotus*; 58 **Rhamnaceae**: *Rhamnus* sp.; 59 **Pinaceae**: *Abies concolor*; 60, 61 **Pinaceae**: *Pinus* sp.; 62 **Fagaceae**: *Quercus* sp.; 63 **Aceraceae**: *Acer* sp.; 64 **Pinaceae**: *Abies* sp.; 65 **Simaroubaceae**: *Ailanthus altissima*; 66 **Pinaceae**: *Abies cilicica*; 67 **Caprifoliaceae**: *Sambucus nigra*; 68 **Aceraceae**: *Acer* sp.; 69 **Cercidiphyllaceae**: *Cercidiphyllum japonicum*; 70 **Fagaceae**: *Fagus sylvatica* (gefällt ca. 2004); 71 **Taxaceae**: *Taxus baccata*; 72 **Betulaceae**: *Carpinus betulus* (gefällt 3/2008); 73 **Taxaceae**: *Taxus baccata*; 74, 75 **Betulaceae**: *Carpinus betulus*; 76, 77 **Oleaceae**: *Fraxinus excelsior*; 78, 79 **Hippocastanaceae**: *Aesculus hippocastanum*; 80 **Ulmaceae**: *Ulmus* sp.; 81 **Juglandaceae**: *Juglans nigra*; 82 **Fabaceae**: *Gleditsia sinensis*; 83 **Hippocastanaceae**: *Aesculus hippocastanum*; 84 **Moraceae**: *Broussonetia papyrifera*; 85 **Ulmaceae**: *Ulmus* sp.; 86 **Oleaceae**: *Fraxinus excelsior*; 87 **Sapindaceae**: *Koelreuteria paniculata*; 88 **Juglandaceae**: *Juglans nigra*

8.3 Plan of the Botanical Garden of the University of Vienna

Source: BOTANISCHER GARTEN UNIVERSITÄT WIEN [www.botanik.univie.ac.at, 2013-05-30]



8.4 Curriculum vitae of the author

Personal Information

Name: Brigitte Bammer
Date of Birth: 31.12.1989
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Citizenship: Austria

Education

1996-2000: Elementary school in Scheiblingkirchen, Lower Austria
2000-2008: Private school „Klemens Maria Hofbauer“ in
Katzelsdorf/Leitha, Lower Austria
10/2008-02/2014: Diploma study of Pharmacy at the University of Vienna
since 10/2012: Bachelor's degree of nutrition sciences at the University of
Vienna

Employment History

07/2007 BAWAG P.S.K. Holiday job
07/2008 BAWAG P.S.K. Holiday job
07/2009 BAWAG P.S.K. Holiday job

Personal skills

Language skills English (8 school years)
Latin (6 school years)
French (4 school years)
Spanish (1 semester)
Computer literacy Microsoft Word, Microsoft Excel, Microsoft Power Point
Adobe Photoshop, IBM SPSS

Alnus spp.**2011 Juli**

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-07-02			1		1
2011-07-03			1		1
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07				1	1
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2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-08-29			1		1
2011-08-30					0
2011-08-31			1		1

2011 September

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2011-09-07			4		4
2011-09-08				1	1
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2011-09-11					0
2011-09-12	4		1		5
2011-09-13				1	1
2011-09-14					0
2011-09-15	1	1	1		3
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2011-09-29					0
2011-09-30					0

2011 Oktober

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2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08			1		1
2011-11-09					0
2011-11-10			1		1
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17		1			1
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08		2			2
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01		2			2
2012-07-02					0
2012-07-03					0
2012-07-04					0
2012-07-05					0
2012-07-06					0
2012-07-07			1	1	2
2012-07-08					0
2012-07-09					0
2012-07-10					0
2012-07-11					0
2012-07-12	1		1		2
2012-07-13					0
2012-07-14		1			1
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16					0
2012-08-17					0
2012-08-18	1				1
2012-08-19					0
2012-08-20					0
2012-08-21					0
2012-08-22					0
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27		1	1		2
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31	1				1

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08			1		1
2012-09-09					0
2012-09-10					0
2012-09-11					0
2012-09-12			1		1
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16	1				1
2012-09-17			1		1
2012-09-18					0
2012-09-19					0
2012-09-20					0
2012-09-21	1				1
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25			2		2
2012-09-26				1	1
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07	1				1
2012-10-08					0
2012-10-09		1			1
2012-10-10			1		1
2012-10-11					0
2012-10-12	1				1
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17	1				1
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22	1	1	2		4
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26				3	3
2012-10-27	1	1		2	4
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31		1			1

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01			1		1
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14	1	1			2
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29			1		1
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04		2			2
2012-12-05		1			1
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21	1				1
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26				1	1
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03				1	1
2011-08-04		1	2	2	5
2011-08-05	1		5	1	7
2011-08-06	8	1	2	8	19
2011-08-07	5	2			7
2011-08-08					0
2011-08-09					0
2011-08-10	1	1		1	3
2011-08-11		2		1	3
2011-08-12		2	5	1	8
2011-08-13				2	2
2011-08-14		2	11	5	18
2011-08-15	1	1			2
2011-08-16					0
2011-08-17			30	115	145
2011-08-18	130	106	156	249	641
2011-08-19	283	59	14	12	368
2011-08-20	8	13	12	14	47
2011-08-21	22	31	105	212	370
2011-08-22	152	44	49	77	322
2011-08-23	74	93	71	40	278
2011-08-24	126	127	65	137	455
2011-08-25	159	55	117	116	447
2011-08-26	177	198	148	287	810
2011-08-27	588	451	181	54	1.274
2011-08-28	16	14	1	2	33
2011-08-29	4	8	5	3	20
2011-08-30	5	9	18	7	39
2011-08-31	18	42	37	92	189

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	40	118	60	25	243
2011-09-02	18	23	30	36	107
2011-09-03	32	55	66	79	232
2011-09-04	114	172	131	132	549
2011-09-05	136	34	47	11	228
2011-09-06	6	5	2	4	17
2011-09-07	3	9	14	6	32
2011-09-08	2	8	10	8	28
2011-09-09	7	10	13	9	39
2011-09-10	11	27	99	119	256
2011-09-11	142	135	32	111	420
2011-09-12	53	5	9	4	71
2011-09-13	4	2	4		10
2011-09-14			3	1	4
2011-09-15		4	2	2	8
2011-09-16	3	3	11	12	29
2011-09-17	18	64	26	61	169
2011-09-18	56	37	13	5	111
2011-09-19	1	1	5	10	17
2011-09-20	7			2	9
2011-09-21	5	6	6	1	18
2011-09-22	1		2		3
2011-09-23	1	1	2	2	6
2011-09-24				3	3
2011-09-25	9	14	18	18	59
2011-09-26	26	6	7	2	41
2011-09-27	3	6	4	1	14
2011-09-28					0
2011-09-29			2	2	4
2011-09-30		1		1	2

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01	1	1	1		3
2011-10-02	1		2		3
2011-10-03		1			1
2011-10-04					0
2011-10-05	1		3	2	6
2011-10-06		1	10	1	12
2011-10-07	2	2		2	6
2011-10-08	1	1	1		3
2011-10-09			1		1
2011-10-10					0
2011-10-11	2	1	3	1	7
2011-10-12		1			1
2011-10-13					0
2011-10-14					0
2011-10-15	1	1	2	1	5
2011-10-16	3	26	28	11	68
2011-10-17	3	5	4	3	15
2011-10-18		1	3	1	5
2011-10-19	3	5	7	5	20
2011-10-20	1				1
2011-10-21		1			1
2011-10-22			2	3	5
2011-10-23	2	1			3
2011-10-24		1	3	1	5
2011-10-25			1	10	11
2011-10-26	9	2	4	9	24
2011-10-27	11	5	11	16	43
2011-10-28	14	5	5	6	30
2011-10-29					0
2011-10-30				1	1
2011-10-31	2	5	2	2	11

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01	1		1		2
2011-11-02				1	1
2011-11-03		1			1
2011-11-04			12	7	19
2011-11-05	3	2		4	9
2011-11-06	2	2	5	4	13
2011-11-07	5	5	2	1	13
2011-11-08	8	4	2	3	17
2011-11-09	4	3			7
2011-11-10	2			2	4
2011-11-11		4	2	5	11
2011-11-12	1	2	1	1	5
2011-11-13	2	1	1		4
2011-11-14					0
2011-11-15	1		1		2
2011-11-16			1		1
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29	1		1		2
2011-11-30				1	1

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01		1			1
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07		1			1
2011-12-08	1		1		2
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12		2			2
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03					0
2012-07-04					0
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09		1	1		2
2012-07-10					0
2012-07-11	1				1
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19				2	2
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30	2				2
2012-07-31	1				1

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01			2		2
2012-08-02					0
2012-08-03		1			1
2012-08-04		1		1	2
2012-08-05		1	1		2
2012-08-06	1			1	2
2012-08-07		3	1	1	5
2012-08-08		1		1	2
2012-08-09					0
2012-08-10			1		1
2012-08-11					0
2012-08-12					0
2012-08-13			1		1
2012-08-14	1				1
2012-08-15			24	4	28
2012-08-16	1		1	4	6
2012-08-17	7	12	10	79	108
2012-08-18	59	42	19	12	132
2012-08-19	9	7	6	4	26
2012-08-20	2	3	3	1	9
2012-08-21		2		1	3
2012-08-22	1	2			3
2012-08-23			1	1	2
2012-08-24	8	1	5	1	15
2012-08-25	1				1
2012-08-26	1		1		2
2012-08-27	3		3	4	10
2012-08-28	11	1	3		15
2012-08-29	1	6	12	5	24
2012-08-30	12	20	35	17	84
2012-08-31	16	36	91	84	227

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	109	129	36	19	293
2012-09-02	8	6	4	1	19
2012-09-03	4	6	12	257	279
2012-09-04	257	220	78	22	577
2012-09-05	18	8	11	46	83
2012-09-06	59	242	110	78	489
2012-09-07	169	328	318	286	1.101
2012-09-08	125	42	14	17	198
2012-09-09	18	11	6	9	44
2012-09-10	4	3	4	1	12
2012-09-11	2	4	11	3	20
2012-09-12	33	25	6	4	68
2012-09-13	14	23	8	9	54
2012-09-14	29	64	103	54	250
2012-09-15	40	19	6	2	67
2012-09-16	1	6	3	3	13
2012-09-17		2	2		4
2012-09-18	2		1		3
2012-09-19	4	4	1	1	10
2012-09-20	8	14	1	4	27
2012-09-21	10	20	12	21	63
2012-09-22	14	1	1	1	17
2012-09-23	3	2	15	15	35
2012-09-24	9	10		2	21
2012-09-25	3	7	4	1	15
2012-09-26	1				1
2012-09-27	1				1
2012-09-28		2	5		7
2012-09-29	1	1			2
2012-09-30	1	7	3	3	14

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01	5	2	3		10
2012-10-02		1	13	2	16
2012-10-03	1	7			8
2012-10-04		3	1	1	5
2012-10-05		1	1	1	3
2012-10-06	1	1			2
2012-10-07	1	1		1	3
2012-10-08	1	3		2	6
2012-10-09	2		1		3
2012-10-10					0
2012-10-11					0
2012-10-12		1	2		3
2012-10-13	5			1	6
2012-10-14					0
2012-10-15	4	6	2	6	18
2012-10-16	3	3	1	1	8
2012-10-17		1			1
2012-10-18		2			2
2012-10-19		1			1
2012-10-20			2	2	4
2012-10-21	1		1	3	5
2012-10-22	2	1	3	4	10
2012-10-23	1	3	1	4	9
2012-10-24	2	2	3		7
2012-10-25		1			1
2012-10-26			5	16	21
2012-10-27	6	3	1	10	20
2012-10-28	1	2			3
2012-10-29	1	1	2		4
2012-10-30		1			1
2012-10-31			10		10

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01				1	1
2012-11-02	1			2	3
2012-11-03	1		1	2	4
2012-11-04			2	3	5
2012-11-05			1	1	2
2012-11-06	2	4	2	11	19
2012-11-07	17	1			18
2012-11-08					0
2012-11-09					0
2012-11-10	4	2	2	4	12
2012-11-11	2	3	1		6
2012-11-12	1				1
2012-11-13		1			1
2012-11-14	2	2	1		5
2012-11-15				1	1
2012-11-16	1		1		2
2012-11-17		1		1	2
2012-11-18		1			1
2012-11-19		1	1		2
2012-11-20		1		1	2
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28		1			1
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01	1				1
2012-12-02					0
2012-12-03					0
2012-12-04	1	1			2
2012-12-05	2	3			5
2012-12-06		2			2
2012-12-07					0
2012-12-08	1			1	2
2012-12-09					0
2012-12-10	1				1
2012-12-11		2			2
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16				1	1
2012-12-17		1	1		2
2012-12-18					0
2012-12-19					0
2012-12-20	2	1	2	1	6
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25	1				1
2012-12-26			1	1	2
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31		1			1

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
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2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-08-02					0
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2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26					0
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2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-09-21					0
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2011-09-24					0
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2011 Oktober

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2011-10-02					0
2011-10-03					0
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2011-10-06					0
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2011-10-24					0
2011-10-25					0
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2011-10-27					0
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2011-10-31					0

2011 November

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2011-11-25					0
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2011 Dezember

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2011-12-14					0

2012 Juli

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2012-07-07					0
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2012 August

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2012 September

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2012-09-06					0
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2012-09-08					0
2012-09-09					0
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2012-09-25					0
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2012 Oktober

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2012-10-11					0
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2012-10-13					0
2012-10-14					0
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2012-10-16					0
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2012-10-28					0
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2012-10-31					0

2012 November

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2012-11-30					0

2012 Dezember

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2012-12-29					0
2012-12-30					0
2012-12-31					0

Apiaceae

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-07-07					0
2011-07-08			1	6	7
2011-07-09	1	1	2	2	6
2011-07-10			1	1	2
2011-07-11					0
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2011-07-13	1	2	1	1	5
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2011-07-15	1				1
2011-07-16			1		1
2011-07-17		1	2		3
2011-07-18					0
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2011-07-20	3	1			4
2011-07-21			2		2
2011-07-22					0
2011-07-23					0
2011-07-24	1				1
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28	1	1			2
2011-07-29			1		1
2011-07-30					0
2011-07-31		1		1	2

2011 August

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2011-08-05		4			4
2011-08-06			1	1	2
2011-08-07		1	1		2
2011-08-08					0
2011-08-09			1		1
2011-08-10			1		1
2011-08-11		1		2	3
2011-08-12		5			5
2011-08-13					0
2011-08-14	1			1	2
2011-08-15					0
2011-08-16		3	1		4
2011-08-17	1	1	2	2	6
2011-08-18			2		2
2011-08-19	6	1	2	3	12
2011-08-20		1	1	1	3
2011-08-21	1	5	1		7
2011-08-22			1	1	2
2011-08-23	1			2	3
2011-08-24			2	3	5
2011-08-25	1	1	1	1	4
2011-08-26	1	1	3	2	7
2011-08-27	5	5	1		11
2011-08-28					0
2011-08-29			3		3
2011-08-30	1				1
2011-08-31		1		1	2

2011 September

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2011-09-01		2	1		3
2011-09-02				1	1
2011-09-03					0
2011-09-04		4			4
2011-09-05		1		1	2
2011-09-06	1				1
2011-09-07			1		1
2011-09-08					0
2011-09-09					0
2011-09-10				1	1
2011-09-11					0
2011-09-12					0
2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16			2		2
2011-09-17		1			1
2011-09-18					0
2011-09-19					0
2011-09-20	1				1
2011-09-21	1	1			2
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
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2011-09-30					0

2011 Oktober

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2011-10-06					0
2011-10-07					0
2011-10-08					0
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2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
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2011-10-23					0
2011-10-24					0
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2011-10-28					0
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2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-11-03					0
2011-11-04					0
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2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
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2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
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2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

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2012-07-02				1	1
2012-07-03					0
2012-07-04		4			4
2012-07-05					0
2012-07-06					0
2012-07-07					0
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2012-07-10	1	1	1		3
2012-07-11					0
2012-07-12		1			1
2012-07-13	1				1
2012-07-14		1			1
2012-07-15					0
2012-07-16					0
2012-07-17		1	1		2
2012-07-18					0
2012-07-19		1	1		2
2012-07-20					0
2012-07-21					0
2012-07-22				1	1
2012-07-23		1		4	5
2012-07-24			1		1
2012-07-25					0
2012-07-26					0
2012-07-27				1	1
2012-07-28					0
2012-07-29		1			1
2012-07-30					0
2012-07-31	1	1	1		3

2012 August

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2012-08-03			1		1
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2012-08-05					0
2012-08-06		2			2
2012-08-07					0
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2012-08-09		1			1
2012-08-10	1	1			2
2012-08-11		1			1
2012-08-12					0
2012-08-13				1	1
2012-08-14		3			3
2012-08-15	2	2	1	1	6
2012-08-16		2			2
2012-08-17		1			1
2012-08-18	1	5	1	1	8
2012-08-19	1	1	1		3
2012-08-20		1			1
2012-08-21		1	2	1	4
2012-08-22		6			6
2012-08-23					0
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2012-08-25		1			1
2012-08-26					0
2012-08-27					0
2012-08-28				1	1
2012-08-29					0
2012-08-30					0
2012-08-31				1	1

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	1	2			3
2012-09-02					0
2012-09-03					0
2012-09-04	1			2	3
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
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2012-09-10		1			1
2012-09-11					0
2012-09-12		1			1
2012-09-13					0
2012-09-14		1			1
2012-09-15					0
2012-09-16					0
2012-09-17		1			1
2012-09-18					0
2012-09-19				2	2
2012-09-20		1	1		2
2012-09-21		3	1		4
2012-09-22					0
2012-09-23	1				1
2012-09-24		1			1
2012-09-25		1			1
2012-09-26					0
2012-09-27					0
2012-09-28					0
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2012-09-30					0

2012 Oktober

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2012-10-02					0
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2012-10-06					0
2012-10-07					0
2012-10-08					0
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2012-10-24					0
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2012-10-29	4				4
2012-10-30					0
2012-10-31					0

2012 November

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2012-11-07					0
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2012-11-09					0
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2012-11-23					0
2012-11-24					0
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2012-11-27					0
2012-11-28					0
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2012-11-30					0

2012 Dezember

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2012-12-02					0
2012-12-03					0
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2012-12-21					0
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2012-12-23					0
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2012-12-26					0
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2012-12-28					0
2012-12-29					0
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2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08		1			1
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13			2		2
2011-07-14					0
2011-07-15		1			1
2011-07-16		1			1
2011-07-17	1	1			2
2011-07-18					0
2011-07-19		2			2
2011-07-20			2		2
2011-07-21					0
2011-07-22		1			1
2011-07-23			4		4
2011-07-24					0
2011-07-25	2				2
2011-07-26			1	1	2
2011-07-27		1	2		3
2011-07-28	1	2			3
2011-07-29	1		1	1	3
2011-07-30			1	1	2
2011-07-31		1	2		3

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01			2	1	3
2011-08-02	3	1	3	1	8
2011-08-03	7	4	8	4	23
2011-08-04		1	9	7	17
2011-08-05	5	12	7	2	26
2011-08-06	10	78	10	10	108
2011-08-07	3	24	10		37
2011-08-08			1	1	2
2011-08-09	2	2	1	1	6
2011-08-10		1	10	13	24
2011-08-11	2	39	13	9	63
2011-08-12	12	148	71	20	251
2011-08-13	11	21	8	11	51
2011-08-14	42	110	38	14	204
2011-08-15	32	100	21	5	158
2011-08-16	5	25	31	14	75
2011-08-17	11	15	116	87	229
2011-08-18	59	139	183	39	420
2011-08-19	15	48	49	34	146
2011-08-20	7	39	52	37	135
2011-08-21	35	56	72	24	187
2011-08-22	11	11	23	14	59
2011-08-23	7	11	17	11	46
2011-08-24	3	18	5	5	31
2011-08-25	12	8	17	4	41
2011-08-26	9	10	18	9	46
2011-08-27	12	24	30	6	72
2011-08-28		2	9	3	14
2011-08-29	1	3	6	3	13
2011-08-30	1	3	8	1	13
2011-08-31			8	1	9

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	3	4	4		11
2011-09-02			1		1
2011-09-03		4	1	1	6
2011-09-04	1	4	5	1	11
2011-09-05	1	2	3	3	9
2011-09-06	1	2	1		4
2011-09-07		1		1	2
2011-09-08		1		1	2
2011-09-09	1				1
2011-09-10		1	2		3
2011-09-11	1	1		4	6
2011-09-12	2				2
2011-09-13		2			2
2011-09-14					0
2011-09-15	1	3			4
2011-09-16	1	1			2
2011-09-17		7			7
2011-09-18	1	6	1	2	10
2011-09-19				4	4
2011-09-20					0
2011-09-21		1	1	1	3
2011-09-22					0
2011-09-23		1			1
2011-09-24		8	11		19
2011-09-25		14	27	3	44
2011-09-26	2	7	5		14
2011-09-27		5	10		15
2011-09-28		5			5
2011-09-29			3		3
2011-09-30			1		1

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03				1	1
2011-10-04		2	3		5
2011-10-05					0
2011-10-06		3	2	2	7
2011-10-07					0
2011-10-08		1	1		2
2011-10-09					0
2011-10-10					0
2011-10-11			3		3
2011-10-12	1	1			2
2011-10-13		1			1
2011-10-14			1		1
2011-10-15					0
2011-10-16		2			2
2011-10-17			1		1
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26	1			2	3
2011-10-27				2	2
2011-10-28				1	1
2011-10-29					0
2011-10-30					0
2011-10-31	1	1	2		4

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06		1	1	1	3
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09		1			1
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02			1		1
2012-07-03					0
2012-07-04					0
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09		1			1
2012-07-10					0
2012-07-11					0
2012-07-12		2			2
2012-07-13					0
2012-07-14			1		1
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18		1	1	2	4
2012-07-19		2			2
2012-07-20					0
2012-07-21					0
2012-07-22		1	1	1	3
2012-07-23	4	4	2	2	12
2012-07-24		1			1
2012-07-25			3		3
2012-07-26	1	2	2		5
2012-07-27		1			1
2012-07-28					0
2012-07-29			1		1
2012-07-30				1	1
2012-07-31		1			1

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01		1	8	1	10
2012-08-02	2	1	1	1	5
2012-08-03	2	1	5		8
2012-08-04	1	7	2	1	11
2012-08-05	2	1	3	2	8
2012-08-06	3	3	1	3	10
2012-08-07		2	16	2	20
2012-08-08	4	9	87	29	129
2012-08-09	42	85	54	27	208
2012-08-10	59	72	76	14	221
2012-08-11	65	145	73	18	301
2012-08-12	26	29	42	37	134
2012-08-13	51	91	106	31	279
2012-08-14	29	29	52	32	142
2012-08-15	22	23	21	23	89
2012-08-16	14	20	27	10	71
2012-08-17	12	47	29	16	104
2012-08-18	38	114	126	60	338
2012-08-19	85	135	59	47	326
2012-08-20	46	96	40	5	187
2012-08-21	39	79	117	101	336
2012-08-22	102	106	1	2	211
2012-08-23	2		1		3
2012-08-24	1		1		2
2012-08-25					0
2012-08-26		2	1		3
2012-08-27		1	8	2	11
2012-08-28	1	4	2	9	16
2012-08-29	16	11	3	3	33
2012-08-30	2	2	1	1	6
2012-08-31	3	2	3	3	11

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	4	11			15
2012-09-02		1			1
2012-09-03			2	2	4
2012-09-04	2	3	6	3	14
2012-09-05	1	2	1	2	6
2012-09-06		2	2	1	5
2012-09-07	3	2	2	2	9
2012-09-08	1		1		2
2012-09-09		1	1		2
2012-09-10		4			4
2012-09-11		1			1
2012-09-12	1	4			5
2012-09-13	1				1
2012-09-14		1	4		5
2012-09-15	3	1		1	5
2012-09-16					0
2012-09-17	1	1			2
2012-09-18		1			1
2012-09-19		1			1
2012-09-20	3	6	9		18
2012-09-21	1	1	3	3	8
2012-09-22	2	2			4
2012-09-23			1		1
2012-09-24	1	1			2
2012-09-25		1			1
2012-09-26			2		2
2012-09-27	2	5	1	1	9
2012-09-28	1	4	33	2	40
2012-09-29		4		1	5
2012-09-30		11	9	3	23

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01		5	14	1	20
2012-10-02	1	2	18	3	24
2012-10-03	1	8	1		10
2012-10-04	1	1			2
2012-10-05					0
2012-10-06			1		1
2012-10-07		5	2		7
2012-10-08	1				1
2012-10-09	3	7	1		11
2012-10-10		4			4
2012-10-11		1			1
2012-10-12		4	1		5
2012-10-13	1	1			2
2012-10-14					0
2012-10-15	1	1			2
2012-10-16	1	2	1		4
2012-10-17		2			2
2012-10-18					0
2012-10-19					0
2012-10-20			1		1
2012-10-21		1	1		2
2012-10-22		1			1
2012-10-23	1		2		3
2012-10-24		2			2
2012-10-25		1		1	2
2012-10-26				3	3
2012-10-27	2		1	1	4
2012-10-28	1	1			2
2012-10-29	1				1
2012-10-30		1			1
2012-10-31			3		3

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02		1			1
2012-11-03				2	2
2012-11-04			1		1
2012-11-05			1		1
2012-11-06				2	2
2012-11-07	1	2			3
2012-11-08					0
2012-11-09				1	1
2012-11-10	2	1			3
2012-11-11		1			1
2012-11-12				1	1
2012-11-13				1	1
2012-11-14			1		1
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30			1		1

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01	1				1
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08	1				1
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31		1	1		2

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01		1			1
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08	1				1
2011-07-09		1	3		4
2011-07-10					0
2011-07-11			1		1
2011-07-12				1	1
2011-07-13	2		1	2	5
2011-07-14			1		1
2011-07-15				1	1
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2011-07-18	1		1	1	3
2011-07-19	2		1	1	4
2011-07-20	1				1
2011-07-21		3	1		4
2011-07-22				1	1
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27	2				2
2011-07-28	2	1			3
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01				1	1
2011-08-02					0
2011-08-03			1	1	2
2011-08-04	1		1	1	3
2011-08-05		1			1
2011-08-06	2				2
2011-08-07	2				2
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11	3				3
2011-08-12	2	1		2	5
2011-08-13		2			2
2011-08-14			2	1	3
2011-08-15			1		1
2011-08-16					0
2011-08-17				5	5
2011-08-18	1	1		11	13
2011-08-19	6	1	2	1	10
2011-08-20	1		2		3
2011-08-21	4	2	3	2	11
2011-08-22	3	1	4	2	10
2011-08-23	2	2			4
2011-08-24	3	2	2		7
2011-08-25	4	2	24	4	34
2011-08-26		3	11	3	17
2011-08-27	1	3	4		8
2011-08-28		1			1
2011-08-29			1		1
2011-08-30		1	5	2	8
2011-08-31	2	1		1	4

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	2	1	1		4
2011-09-02			1		1
2011-09-03		1	1	2	4
2011-09-04	1	1	3	3	8
2011-09-05			3	2	5
2011-09-06					0
2011-09-07			1		1
2011-09-08		1			1
2011-09-09			1		1
2011-09-10				2	2
2011-09-11		2	1	1	4
2011-09-12	1			1	2
2011-09-13	2		1	1	4
2011-09-14	1				1
2011-09-15		1			1
2011-09-16					0
2011-09-17			1	2	3
2011-09-18	1			1	2
2011-09-19			1	2	3
2011-09-20					0
2011-09-21			2		2
2011-09-22					0
2011-09-23					0
2011-09-24				2	2
2011-09-25			3		3
2011-09-26	1	1	1		3
2011-09-27	1				1
2011-09-28	1				1
2011-09-29			1		1
2011-09-30			1	2	3

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02	1				1
2011-10-03					0
2011-10-04					0
2011-10-05			1	1	2
2011-10-06	1	1		1	3
2011-10-07					0
2011-10-08					0
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16			1		1
2011-10-17					0
2011-10-18					0
2011-10-19			1	1	2
2011-10-20			1		1
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24		1	1		2
2011-10-25			1	2	3
2011-10-26	1	1			2
2011-10-27	1			1	2
2011-10-28				1	1
2011-10-29				1	1
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02				1	1
2011-11-03					0
2011-11-04			4	1	5
2011-11-05	1				1
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16			1		1
2011-11-17					0
2011-11-18				1	1
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22	1				1
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01		3		1	4
2012-07-02				1	1
2012-07-03		2	1		3
2012-07-04			1		1
2012-07-05					0
2012-07-06					0
2012-07-07			1		1
2012-07-08				1	1
2012-07-09					0
2012-07-10	4	1	5	1	11
2012-07-11	3	1			4
2012-07-12	2	2	2		6
2012-07-13					0
2012-07-14				2	2
2012-07-15					0
2012-07-16				1	1
2012-07-17		2		2	4
2012-07-18		1		5	6
2012-07-19			1		1
2012-07-20					0
2012-07-21					0
2012-07-22	1				1
2012-07-23			2		2
2012-07-24					0
2012-07-25					0
2012-07-26		1			1
2012-07-27					0
2012-07-28					0
2012-07-29		1			1
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01	1				1
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05			3		3
2012-08-06					0
2012-08-07	1	1	1	1	4
2012-08-08		2			2
2012-08-09			1		1
2012-08-10	2		1		3
2012-08-11		1			1
2012-08-12	1	2	1	2	6
2012-08-13	2	1	3		6
2012-08-14		1		2	3
2012-08-15	1	1	3	2	7
2012-08-16	1	1	1		3
2012-08-17	2	4	2		8
2012-08-18	2	2	2	1	7
2012-08-19	1			1	2
2012-08-20				1	1
2012-08-21	2	1	2		5
2012-08-22	4				4
2012-08-23					0
2012-08-24	1				1
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29	1	1	7	2	11
2012-08-30		4	1	1	6
2012-08-31	2		1	4	7

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	2	4	3		9
2012-09-02					0
2012-09-03	2				2
2012-09-04	3	2	2	2	9
2012-09-05	1	1			2
2012-09-06	2	4		11	17
2012-09-07	2	5	8	3	18
2012-09-08	3				3
2012-09-09	1	1			2
2012-09-10					0
2012-09-11			2	6	8
2012-09-12	4	3	1		8
2012-09-13	2				2
2012-09-14	1	1	3	3	8
2012-09-15	1		1		2
2012-09-16	1		1		2
2012-09-17		1			1
2012-09-18					0
2012-09-19			1		1
2012-09-20	2	1			3
2012-09-21				2	2
2012-09-22	1		1		2
2012-09-23		1	2	1	4
2012-09-24	1	2			3
2012-09-25		5	1		6
2012-09-26					0
2012-09-27					0
2012-09-28		2			2
2012-09-29	1	1			2
2012-09-30		1			1

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02		1	1		2
2012-10-03	3	5			8
2012-10-04		1			1
2012-10-05			1		1
2012-10-06	1				1
2012-10-07	1	4			5
2012-10-08	1	1		1	3
2012-10-09	1				1
2012-10-10					0
2012-10-11					0
2012-10-12		1	3	1	5
2012-10-13	2	1			3
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20				1	1
2012-10-21					0
2012-10-22					0
2012-10-23	2				2
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27			1		1
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31		1	2		3

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03			1		1
2012-11-04					0
2012-11-05					0
2012-11-06	1				1
2012-11-07	1				1
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11		1			1
2012-11-12	1				1
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17	1				1
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21			2		2
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27		1			1
2012-11-28					0
2012-11-29	1			1	2
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04	1				1
2012-12-05	1	1			2
2012-12-06					0
2012-12-07					0
2012-12-08	2				2
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

Asteraceae/Cichorioideae

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08	1				1
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12			1		1
2011-07-13					0
2011-07-14					0
2011-07-15		1			1
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02	1				1
2011-08-03					0
2011-08-04					0
2011-08-05	1				1
2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19				1	1
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26			1		1
2011-08-27		1			1
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01					0
2011-09-02					0
2011-09-03					0
2011-09-04				1	1
2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11		2			2
2011-09-12			1		1
2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17		1			1
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04					0
2011-10-05					0
2011-10-06					0
2011-10-07					0
2011-10-08					0
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05		1			1
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03					0
2012-07-04					0
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10					0
2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18				1	1
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04				1	1
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
2012-08-10					0
2012-08-11	1				1
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16			1		1
2012-08-17					0
2012-08-18					0
2012-08-19					0
2012-08-20					0
2012-08-21			1		1
2012-08-22		1			1
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26	1				1
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30	1				1
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01			2		2
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11					0
2012-09-12			1		1
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16	1	1			2
2012-09-17					0
2012-09-18					0
2012-09-19					0
2012-09-20				1	1
2012-09-21					0
2012-09-22					0
2012-09-23					0
2012-09-24	1				1
2012-09-25		1			1
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02			1		1
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06				1	1
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10					0
2012-10-11					0
2012-10-12		1			1
2012-10-13		1			1
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09				1	1
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

Balsaminaceae

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04			1		1
2011-07-05					0
2011-07-06					0
2011-07-07		1			1
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13	1	1		1	3
2011-07-14					0
2011-07-15					0
2011-07-16	1		1		2
2011-07-17				1	1
2011-07-18					0
2011-07-19					0
2011-07-20		1	2		3
2011-07-21	1				1
2011-07-22				1	1
2011-07-23	1		1	1	3
2011-07-24				1	1
2011-07-25			2	1	3
2011-07-26					0
2011-07-27		1			1
2011-07-28	1				1
2011-07-29			1	1	2
2011-07-30					0
2011-07-31	1	1		1	3

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01				1	1
2011-08-02	1			1	2
2011-08-03				6	6
2011-08-04	2	1		2	5
2011-08-05			1		1
2011-08-06	1	1	2		4
2011-08-07					0
2011-08-08			1		1
2011-08-09			3	1	4
2011-08-10			3	1	4
2011-08-11	4	1	1	2	8
2011-08-12		1	1		2
2011-08-13	1		2		3
2011-08-14			1	1	2
2011-08-15	1				1
2011-08-16		1			1
2011-08-17				1	1
2011-08-18			1	3	4
2011-08-19	1	1	3		5
2011-08-20			3		3
2011-08-21		5	3	2	10
2011-08-22	3	1			4
2011-08-23	3		4	1	8
2011-08-24			1	1	2
2011-08-25	1				1
2011-08-26		3			3
2011-08-27		1	3		4
2011-08-28	1		7		8
2011-08-29	1	3		1	5
2011-08-30	1	1		1	3
2011-08-31			3	1	4

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01			3	1	4
2011-09-02	1				1
2011-09-03	1		1		2
2011-09-04		1	1		2
2011-09-05					0
2011-09-06					0
2011-09-07			6		6
2011-09-08	1	1	2	1	5
2011-09-09		1		2	3
2011-09-10	1				1
2011-09-11			3	1	4
2011-09-12	1		1	5	7
2011-09-13		2	1	1	4
2011-09-14	3				3
2011-09-15	3	1	1	9	14
2011-09-16					0
2011-09-17			1		1
2011-09-18			1		1
2011-09-19			1	1	2
2011-09-20					0
2011-09-21			4	4	8
2011-09-22				3	3
2011-09-23	1				1
2011-09-24	1		1		2
2011-09-25			6		6
2011-09-26				1	1
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30			1		1

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04				1	1
2011-10-05	1				1
2011-10-06		3	1		4
2011-10-07					0
2011-10-08					0
2011-10-09	1				1
2011-10-10					0
2011-10-11		1		1	2
2011-10-12		1			1
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03					0
2012-07-04					0
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10					0
2012-07-11				1	1
2012-07-12	2				2
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17			1		1
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31	1				1

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03		1			1
2012-08-04			1		1
2012-08-05					0
2012-08-06		1			1
2012-08-07					0
2012-08-08					0
2012-08-09	1				1
2012-08-10				1	1
2012-08-11		1			1
2012-08-12			1		1
2012-08-13				1	1
2012-08-14	2		1		3
2012-08-15		1			1
2012-08-16			2		2
2012-08-17	1	1		1	3
2012-08-18			2		2
2012-08-19		1	1		2
2012-08-20				1	1
2012-08-21	2				2
2012-08-22		2			2
2012-08-23					0
2012-08-24					0
2012-08-25	3				3
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29		2	3		5
2012-08-30					0
2012-08-31	1	1	1		3

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	1				1
2012-09-02					0
2012-09-03			1	1	2
2012-09-04	4		1		5
2012-09-05		1		1	2
2012-09-06					0
2012-09-07		1	2		3
2012-09-08		3			3
2012-09-09	3	1	1	2	7
2012-09-10	5				5
2012-09-11					0
2012-09-12	1				1
2012-09-13	1			1	2
2012-09-14		2			2
2012-09-15					0
2012-09-16	3	1	1	5	10
2012-09-17	3	3			6
2012-09-18					0
2012-09-19					0
2012-09-20				1	1
2012-09-21	1				1
2012-09-22		2	1		3
2012-09-23			1	1	2
2012-09-24		2			2
2012-09-25	2	1			3
2012-09-26					0
2012-09-27	14				14
2012-09-28					0
2012-09-29					0
2012-09-30	1	5		1	7

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02				1	1
2012-10-03	1				1
2012-10-04					0
2012-10-05		1			1
2012-10-06					0
2012-10-07					0
2012-10-08	1			1	2
2012-10-09	1	1			2
2012-10-10	1				1
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15				1	1
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20			2		2
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26				1	1
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30		1			1
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14		1			1
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

Betula spp.**2011 Juli**

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01	1				1
2011-07-02				1	1
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06			1		1
2011-07-07	1	1			2
2011-07-08		1		1	2
2011-07-09				1	1
2011-07-10			1	1	2
2011-07-11			1		1
2011-07-12		1			1
2011-07-13			1		1
2011-07-14	3		1		4
2011-07-15					0
2011-07-16				1	1
2011-07-17			1	3	4
2011-07-18					0
2011-07-19		1		1	2
2011-07-20	1				1
2011-07-21		2		3	5
2011-07-22	1		1		2
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26				1	1
2011-07-27		1			1
2011-07-28					0
2011-07-29		1	1		2
2011-07-30		1			1
2011-07-31			1		1

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03					0
2011-08-04				3	3
2011-08-05					0
2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10			1		1
2011-08-11					0
2011-08-12	1	2	1		4
2011-08-13					0
2011-08-14			2		2
2011-08-15					0
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25		1			1
2011-08-26				1	1
2011-08-27			2		2
2011-08-28				1	1
2011-08-29					0
2011-08-30	1				1
2011-08-31		1	1	1	3

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	1				1
2011-09-02				1	1
2011-09-03			1		1
2011-09-04				1	1
2011-09-05				1	1
2011-09-06					0
2011-09-07			4	2	6
2011-09-08			1		1
2011-09-09					0
2011-09-10				2	2
2011-09-11					0
2011-09-12	1		2	2	5
2011-09-13			1	1	2
2011-09-14	1				1
2011-09-15		1			1
2011-09-16			1		1
2011-09-17					0
2011-09-18			2		2
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26		1			1
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30			1		1

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03	1			1	2
2011-10-04	1		1	1	3
2011-10-05				1	1
2011-10-06			2		2
2011-10-07	1				1
2011-10-08			1		1
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15			1	1	2
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19	1	1	1		3
2011-10-20					0
2011-10-21					0
2011-10-22				1	1
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27		1	1	1	3
2011-10-28	1	1			2
2011-10-29					0
2011-10-30					0
2011-10-31			1		1

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08				1	1
2011-11-09	2				2
2011-11-10				1	1
2011-11-11	1				1
2011-11-12					0
2011-11-13					0
2011-11-14	1				1
2011-11-15			1		1
2011-11-16			1		1
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21		1			1
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26				1	1
2011-11-27					0
2011-11-28			2		2
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01		1			1
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01	1				1
2012-07-02			2	1	3
2012-07-03					0
2012-07-04	4	2			6
2012-07-05	1	2			3
2012-07-06				1	1
2012-07-07	1	1			2
2012-07-08	1	1	1	1	4
2012-07-09	39	10	1	1	51
2012-07-10		4	1		5
2012-07-11	2	1			3
2012-07-12		3	2	1	6
2012-07-13				1	1
2012-07-14			1		1
2012-07-15			1	1	2
2012-07-16			1		1
2012-07-17			1		1
2012-07-18		1			1
2012-07-19	1		4	2	7
2012-07-20	1	1	1	2	5
2012-07-21			1	1	2
2012-07-22			1		1
2012-07-23	1		1	1	3
2012-07-24			1		1
2012-07-25					0
2012-07-26					0
2012-07-27				1	1
2012-07-28			1		1
2012-07-29					0
2012-07-30	1				1
2012-07-31	1				1

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01			3		3
2012-08-02					0
2012-08-03					0
2012-08-04	1		1	1	3
2012-08-05					0
2012-08-06					0
2012-08-07		2		4	6
2012-08-08					0
2012-08-09		2	2		4
2012-08-10					0
2012-08-11	2		1		3
2012-08-12	1				1
2012-08-13			1		1
2012-08-14					0
2012-08-15	1			1	2
2012-08-16	1		2		3
2012-08-17	1		2		3
2012-08-18					0
2012-08-19	1				1
2012-08-20					0
2012-08-21				1	1
2012-08-22		2			2
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27	1				1
2012-08-28					0
2012-08-29		2	1		3
2012-08-30	1		1		2
2012-08-31		3			3

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01		2			2
2012-09-02					0
2012-09-03	1			1	2
2012-09-04		1			1
2012-09-05					0
2012-09-06					0
2012-09-07				1	1
2012-09-08	1	1			2
2012-09-09			1	1	2
2012-09-10					0
2012-09-11	1		1		2
2012-09-12					0
2012-09-13		1			1
2012-09-14		2			2
2012-09-15		1			1
2012-09-16		1	2		3
2012-09-17					0
2012-09-18	1				1
2012-09-19			1		1
2012-09-20	1	1			2
2012-09-21					0
2012-09-22	1				1
2012-09-23					0
2012-09-24		1		1	2
2012-09-25		2			2
2012-09-26		1		1	2
2012-09-27	1				1
2012-09-28	1	2			3
2012-09-29		2			2
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02				1	1
2012-10-03			1		1
2012-10-04			2	2	4
2012-10-05		1		1	2
2012-10-06				1	1
2012-10-07					0
2012-10-08		1			1
2012-10-09		1	1		2
2012-10-10		1			1
2012-10-11					0
2012-10-12			1		1
2012-10-13		1			1
2012-10-14					0
2012-10-15	1				1
2012-10-16			1		1
2012-10-17					0
2012-10-18					0
2012-10-19	2				2
2012-10-20	1				1
2012-10-21					0
2012-10-22					0
2012-10-23	1				1
2012-10-24		1	1		2
2012-10-25		1	1		2
2012-10-26	1			74	75
2012-10-27	46	6	8	2	62
2012-10-28	2				2
2012-10-29		3			3
2012-10-30					0
2012-10-31	1		7	1	9

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01		3	1		4
2012-11-02					0
2012-11-03					0
2012-11-04		2			2
2012-11-05					0
2012-11-06					0
2012-11-07			1		1
2012-11-08					0
2012-11-09		1			1
2012-11-10		1			1
2012-11-11	2		1		3
2012-11-12					0
2012-11-13					0
2012-11-14		2	1		3
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18			2		2
2012-11-19					0
2012-11-20		1			1
2012-11-21			1	1	2
2012-11-22					0
2012-11-23					0
2012-11-24	1				1
2012-11-25			1	1	2
2012-11-26					0
2012-11-27		1	1		2
2012-11-28					0
2012-11-29					0
2012-11-30		1			1

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03		1			1
2012-12-04	2	2			4
2012-12-05		1			1
2012-12-06		1	1		2
2012-12-07		1	1		2
2012-12-08	2		2		4
2012-12-09				1	1
2012-12-10					0
2012-12-11		2	1		3
2012-12-12					0
2012-12-13		1			1
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17				1	1
2012-12-18					0
2012-12-19		3			3
2012-12-20			1		1
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26		1		1	2
2012-12-27					0
2012-12-28				2	2
2012-12-29	1				1
2012-12-30	2		1		3
2012-12-31			1		1

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03					0
2011-08-04					0
2011-08-05					0
2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26					0
2011-08-27					0
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01					0
2011-09-02					0
2011-09-03					0
2011-09-04					0
2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12					0
2011-09-13					0
2011-09-14					0
2011-09-15				1	1
2011-09-16			6		6
2011-09-17					0
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04					0
2011-10-05					0
2011-10-06					0
2011-10-07					0
2011-10-08					0
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
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2011-11-13					0
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2011-11-15					0
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2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
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2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03					0
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2012-07-05					0
2012-07-06					0
2012-07-07					0
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2012-07-09					0
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2012-07-11					0
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2012-07-14					0
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2012-07-17					0
2012-07-18					0
2012-07-19					0
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2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

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2012-08-07					0
2012-08-08					0
2012-08-09					0
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2012-08-16					0
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2012-08-18					0
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2012-08-20					0
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2012-08-23					0
2012-08-24					0
2012-08-25					0
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2012 September

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2012-09-03					0
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2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11					0
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2012-09-13					0
2012-09-14					0
2012-09-15					0
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2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
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2012-09-30					0

2012 Oktober

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2012-10-02					0
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2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10					0
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2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
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2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
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2012-10-31					0

2012 November

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2012-11-03					0
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2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
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2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
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2012-12-28					0
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2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-07-03					0
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2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26			1		1
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-08-03					0
2011-08-04					0
2011-08-05					0
2011-08-06					0
2011-08-07			1		1
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19			1		1
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24			1		1
2011-08-25					0
2011-08-26					0
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2011 September

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2011-09-03					0
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2011-09-06				1	1
2011-09-07			1	1	2
2011-09-08			1		1
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12	6				6
2011-09-13	1	4	1		6
2011-09-14	1			1	2
2011-09-15	1	2	1		4
2011-09-16					0
2011-09-17		4			4
2011-09-18			1		1
2011-09-19					0
2011-09-20					0
2011-09-21		1	1		2
2011-09-22			2	1	3
2011-09-23					0
2011-09-24	1				1
2011-09-25			1		1
2011-09-26					0
2011-09-27	1		1		2
2011-09-28					0
2011-09-29					0
2011-09-30			1		1

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-10-06	4		8	3	15
2011-10-07					0
2011-10-08			1		1
2011-10-09					0
2011-10-10	1				1
2011-10-11		5	8	4	17
2011-10-12	14				14
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17		2			2
2011-10-18	1			1	2
2011-10-19					0
2011-10-20	1				1
2011-10-21					0
2011-10-22			2		2
2011-10-23					0
2011-10-24					0
2011-10-25	2		4		6
2011-10-26					0
2011-10-27			1		1
2011-10-28					0
2011-10-29		1	2	1	4
2011-10-30			3	5	8
2011-10-31	1		1		2

2011 November

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2011-11-06			1	1	2
2011-11-07					0
2011-11-08	1		2		3
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08		2	4		6
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03					0
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2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10					0
2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16		1			1
2012-08-17					0
2012-08-18					0
2012-08-19					0
2012-08-20					0
2012-08-21					0
2012-08-22					0
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
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2012-09-06		1		1	2
2012-09-07		2		1	3
2012-09-08	2	2			4
2012-09-09			1		1
2012-09-10			1		1
2012-09-11		3	48		51
2012-09-12	1	2			3
2012-09-13		4			4
2012-09-14			2		2
2012-09-15		2			2
2012-09-16		3	2	1	6
2012-09-17	1		1		2
2012-09-18	1		1	2	4
2012-09-19			1		1
2012-09-20	1	1	2		4
2012-09-21		4	2		6
2012-09-22		1			1
2012-09-23		2	1	2	5
2012-09-24	1	2			3
2012-09-25		4	2		6
2012-09-26				1	1
2012-09-27	2	5			7
2012-09-28	1	3	1		5
2012-09-29		1	1		2
2012-09-30	2				2

2012 Oktober

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2012-10-03	1	15			16
2012-10-04		1			1
2012-10-05					0
2012-10-06					0
2012-10-07		5			5
2012-10-08		1		1	2
2012-10-09		1		2	3
2012-10-10					0
2012-10-11					0
2012-10-12		5	6		11
2012-10-13	4	2		1	7
2012-10-14	2	1	1		4
2012-10-15		2		1	3
2012-10-16	1			1	2
2012-10-17		3			3
2012-10-18					0
2012-10-19	1				1
2012-10-20					0
2012-10-21	3				3
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27	1	1			2
2012-10-28	1				1
2012-10-29				1	1
2012-10-30		4			4
2012-10-31			3		3

2012 November

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2012-11-01		1			1
2012-11-02		1			1
2012-11-03					0
2012-11-04				2	2
2012-11-05					0
2012-11-06					0
2012-11-07		1			1
2012-11-08					0
2012-11-09					0
2012-11-10		2			2
2012-11-11	3	3	3		9
2012-11-12					0
2012-11-13		2			2
2012-11-14		9			9
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19			1	2	3
2012-11-20		1	1		2
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25		1			1
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

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2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04		2			2
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
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2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29				1	1
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
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2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
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2011-07-11					0
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2011-07-13					0
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2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25		2			2
2011-07-26					0
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2011-07-28					0
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2011-07-30		1			1
2011-07-31					0

2011 August

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2011-08-01					0
2011-08-02					0
2011-08-03					0
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2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17			1		1
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21					0
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2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26					0
2011-08-27					0
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

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2011-09-01					0
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2011-09-03		1			1
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2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11	1				1
2011-09-12					0
2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17					0
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21			3		3
2011-09-22					0
2011-09-23					0
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2011-09-27					0
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2011-09-30					0

2011 Oktober

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2011-10-08					0
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2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19				1	1
2011-10-20					0
2011-10-21				1	1
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-11-07					0
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2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
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2011-11-15					0
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2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
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2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
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2011-12-04					0
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2011-12-09					0
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2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
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2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08	1				1
2012-07-09					0
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2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
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2012-07-16					0
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2012-07-24					0
2012-07-25					0
2012-07-26					0
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2012-07-28					0
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2012-07-30					0
2012-07-31					0

2012 August

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2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
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2012-08-23					0
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2012 September

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2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
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2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
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2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
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2012-10-31					0

2012 November

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2012-11-05					0
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2012-11-08					0
2012-11-09					0
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2012-11-13					0
2012-11-14					0
2012-11-15					0
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2012-11-18					0
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2012-11-20					0
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2012-11-22					0
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2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30		1			1

2012 Dezember

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2012-12-06					0
2012-12-07				1	1
2012-12-08					0
2012-12-09					0
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2012-12-12					0
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2012-12-21					0
2012-12-22					0
2012-12-23					0
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2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-07-02		2			2
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2011-07-05					0
2011-07-06					0
2011-07-07		3	16	8	27
2011-07-08	40	4	1	1	46
2011-07-09	5	4	25	15	49
2011-07-10	13	1	1	3	18
2011-07-11	3	1	1	3	8
2011-07-12					0
2011-07-13	3	6	5	30	44
2011-07-14	3				3
2011-07-15					0
2011-07-16				1	1
2011-07-17	3		5	2	10
2011-07-18					0
2011-07-19				1	1
2011-07-20		1			1
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

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2011-08-05		1			1
2011-08-06			1	4	5
2011-08-07					0
2011-08-08				1	1
2011-08-09	1				1
2011-08-10					0
2011-08-11				1	1
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15	2		1		3
2011-08-16					0
2011-08-17			1		1
2011-08-18					0
2011-08-19					0
2011-08-20	1				1
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26					0
2011-08-27		2	1		3
2011-08-28					0
2011-08-29					0
2011-08-30	1		1		2
2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-09-03					0
2011-09-04					0
2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
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2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17					0
2011-09-18					0
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2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-10-02			2	2	4
2011-10-03					0
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2011-10-05					0
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2011-10-07					0
2011-10-08					0
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2011-10-10					0
2011-10-11					0
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2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19		1			1
2011-10-20					0
2011-10-21					0
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2011-10-23					0
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2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-11-02					0
2011-11-03					0
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2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13		1			1
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01	24	102	91	32	249
2012-07-02	26	26	30	9	91
2012-07-03	12	9	10	13	44
2012-07-04	13	12		3	28
2012-07-05	2	7	9	1	19
2012-07-06	1	7	1		9
2012-07-07	2	5			7
2012-07-08	6	5	2	5	18
2012-07-09	3	19	2	5	29
2012-07-10	2	30	5	3	40
2012-07-11	12	7	10	9	38
2012-07-12	14	74	19	4	111
2012-07-13	4		2	2	8
2012-07-14	2	3			5
2012-07-15	1	1	1	1	4
2012-07-16		1	6	11	18
2012-07-17	31	27	10	5	73
2012-07-18	4	5	18	4	31
2012-07-19	2	1	5	3	11
2012-07-20	1	6	7	5	19
2012-07-21	1				1
2012-07-22					0
2012-07-23		1	1	1	3
2012-07-24					0
2012-07-25			2		2
2012-07-26		3	1		4
2012-07-27	1	4	5	2	12
2012-07-28					0
2012-07-29		1			1
2012-07-30					0
2012-07-31	1				1

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2012-08-04	1		1		2
2012-08-05					0
2012-08-06	1		1		2
2012-08-07		1		3	4
2012-08-08	2	4			6
2012-08-09		1	1		2
2012-08-10					0
2012-08-11					0
2012-08-12	2				2
2012-08-13	1	3	2	1	7
2012-08-14					0
2012-08-15	1		1		2
2012-08-16				2	2
2012-08-17	1				1
2012-08-18					0
2012-08-19					0
2012-08-20					0
2012-08-21					0
2012-08-22					0
2012-08-23					0
2012-08-24				1	1
2012-08-25	1		1		2
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30		2			2
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05	1				1
2012-09-06					0
2012-09-07					0
2012-09-08	1				1
2012-09-09					0
2012-09-10					0
2012-09-11			2		2
2012-09-12					0
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16					0
2012-09-17					0
2012-09-18					0
2012-09-19					0
2012-09-20					0
2012-09-21					0
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2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02			1		1
2012-10-03					0
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2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10					0
2012-10-11					0
2012-10-12		2			2
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23		2			2
2012-10-24					0
2012-10-25					0
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2012-10-27		1			1
2012-10-28					0
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2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
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2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
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2012-11-11					0
2012-11-12					0
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2012-11-14					0
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2012-11-17					0
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2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
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2012-11-27					0
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2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
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2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01			1		1
2011-07-02					0
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2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
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2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
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2011-07-28					0
2011-07-29					0
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2011-07-31					0

2011 August

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2011-08-03					0
2011-08-04					0
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2011-08-08					0
2011-08-09					0
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2011-08-18					0
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2011-08-23					0
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2011-08-25					0
2011-08-26					0
2011-08-27					0
2011-08-28					0
2011-08-29					0
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2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01					0
2011-09-02					0
2011-09-03					0
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2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
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2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011 November

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2011-11-25					0
2011-11-26					0
2011-11-27					0
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2011-11-30					0

2011 Dezember

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2011-12-11					0
2011-12-12					0
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2011-12-14					0

2012 Juli

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2012-07-07					0
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2012-07-25					0
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2012 August

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2012-08-07					0
2012-08-08					0
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2012-08-25					0
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2012 September

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2012-09-07					0
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2012 Oktober

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2012-10-31					0

2012 November

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2012-11-25					0
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2012 Dezember

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2012-12-25					0
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2012-12-27					0
2012-12-28					0
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2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01			1		1
2011-07-02					0
2011-07-03					0
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2011-07-05					0
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2011-07-08					0
2011-07-09					0
2011-07-10	1				1
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20	1				1
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2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28	1				1
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

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2011-08-02					0
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2011-08-06		1			1
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11	1				1
2011-08-12				1	1
2011-08-13		1			1
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17				1	1
2011-08-18		1		1	2
2011-08-19		1	1	1	3
2011-08-20					0
2011-08-21			2	3	5
2011-08-22					0
2011-08-23			1		1
2011-08-24					0
2011-08-25	1				1
2011-08-26	1	1	6	1	9
2011-08-27		3			3
2011-08-28	1				1
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

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2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12					0
2011-09-13					0
2011-09-14	1				1
2011-09-15					0
2011-09-16				1	1
2011-09-17					0
2011-09-18		3			3
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
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2011-09-27					0
2011-09-28					0
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2011-09-30					0

2011 Oktober

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2011-10-13			1		1
2011-10-14					0
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2011-10-25				4	4
2011-10-26					0
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2011 November

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2011-11-03					0
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2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
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2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-12-02					0
2011-12-03					0
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2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

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2012-07-02					0
2012-07-03					0
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2012-07-06		2			2
2012-07-07					0
2012-07-08				61	61
2012-07-09	852	188	34	2	1.076
2012-07-10	9	17	6		32
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2012-07-12					0
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2012-07-14					0
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2012-07-16					0
2012-07-17				1	1
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21				2	2
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25	1				1
2012-07-26					0
2012-07-27		1			1
2012-07-28					0
2012-07-29			2		2
2012-07-30					0
2012-07-31					0

2012 August

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2012-08-03					0
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2012-08-05					0
2012-08-06	1				1
2012-08-07					0
2012-08-08		1			1
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16					0
2012-08-17					0
2012-08-18					0
2012-08-19					0
2012-08-20					0
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2012-08-22	1				1
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
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2012-08-28					0
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2012-08-30					0
2012-08-31					0

2012 September

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2012-09-08					0
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2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
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2012-09-30					0

2012 Oktober

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2012-10-02					0
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2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21			142		142
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26	1.908	396	215	21	2.540
2012-10-27					0
2012-10-28	4				4
2012-10-29					0
2012-10-30		3			3
2012-10-31			1		1

2012 November

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2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

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2012-12-06					0
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2012-12-12					0
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2012-12-14					0
2012-12-15					0
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2012-12-24	1				1
2012-12-25					0
2012-12-26				6	6
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

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2011-07-07					0
2011-07-08					0
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2011-07-23					0
2011-07-24					0
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2011 August

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2011-08-09					0
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2011-08-26					0
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2011-08-28					0
2011-08-29					0
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2011-08-31					0

2011 September

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2011-09-07					0
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2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011 November

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2011 Dezember

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2011-12-12					0
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2011-12-14					0

2012 Juli

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2012 August

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2012 September

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2012 Oktober

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2012 November

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2012 Dezember

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2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-07-10					0
2011-07-11					0
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2011-07-16					0
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2011-07-18					0
2011-07-19				2	2
2011-07-20		2	6	4	12
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2011-07-22					0
2011-07-23					0
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2011-07-25			1		1
2011-07-26					0
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2011 August

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2011-08-06			1		1
2011-08-07					0
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2011-08-18					0
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2011-08-20		1			1
2011-08-21			1		1
2011-08-22					0
2011-08-23					0
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2011-08-25	1				1
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2011 September

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2011-09-25					0
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2011-09-27					0
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2011-09-30					0

2011 Oktober

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2011 November

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2011-11-08					0
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2011-11-11					0
2011-11-12					0
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2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
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2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
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2011-11-27					0
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2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-12-06					0
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2011-12-11					0
2011-12-12					0
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2011-12-14					0

2012 Juli

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2012-07-03					0
2012-07-04					0
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2012-07-07		3			3
2012-07-08	1				1
2012-07-09					0
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2012-07-11			1	1	2
2012-07-12		2			2
2012-07-13		1			1
2012-07-14	3				3
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2012-07-17	2		1	1	4
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2012-07-19	1		1		2
2012-07-20			1	1	2
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2012-07-22					0
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2012-07-28					0
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2012 August

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2012-08-05					0
2012-08-06					0
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2012-08-08					0
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2012-08-15					0
2012-08-16			1		1
2012-08-17					0
2012-08-18	1	1			2
2012-08-19					0
2012-08-20	1				1
2012-08-21	3				3
2012-08-22					0
2012-08-23					0
2012-08-24				1	1
2012-08-25					0
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2012-08-31		1			1

2012 September

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2012 Oktober

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2012-10-02					0
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2012 November

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2012 Dezember

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2011 Juli

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2011 August

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2011 September

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2011 November

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2012 August

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2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
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2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
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2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03					0
2012-07-04					0
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10					0
2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16					0
2012-08-17					0
2012-08-18					0
2012-08-19					0
2012-08-20					0
2012-08-21					0
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2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05	1				1
2012-09-06					0
2012-09-07	1				1
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11					0
2012-09-12					0
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16	1				1
2012-09-17		1			1
2012-09-18					0
2012-09-19					0
2012-09-20					0
2012-09-21				1	1
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
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2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
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2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01	1				1
2011-07-02					0
2011-07-03					0
2011-07-04				1	1
2011-07-05					0
2011-07-06					0
2011-07-07				1	1
2011-07-08		1			1
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20	1				1
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27			3		3
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03					0
2011-08-04	1				1
2011-08-05					0
2011-08-06					0
2011-08-07			1		1
2011-08-08					0
2011-08-09	2				2
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14			1		1
2011-08-15	1				1
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21			1		1
2011-08-22					0
2011-08-23	1				1
2011-08-24			2		2
2011-08-25		1			1
2011-08-26			3		3
2011-08-27			1		1
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31		1			1

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01					0
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2011-09-03					0
2011-09-04					0
2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12					0
2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17					0
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04					0
2011-10-05					0
2011-10-06					0
2011-10-07					0
2011-10-08					0
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01	1	4	3		8
2012-07-02					0
2012-07-03			2		2
2012-07-04	2				2
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10	1	2	5	10	18
2012-07-11	5	1			6
2012-07-12		1		1	2
2012-07-13		1			1
2012-07-14					0
2012-07-15					0
2012-07-16				1	1
2012-07-17					0
2012-07-18			1		1
2012-07-19					0
2012-07-20				1	1
2012-07-21					0
2012-07-22					0
2012-07-23				1	1
2012-07-24				2	2
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07		1			1
2012-08-08	1	3			4
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12			2		2
2012-08-13	5				5
2012-08-14					0
2012-08-15		1	1		2
2012-08-16		1	2		3
2012-08-17	1				1
2012-08-18		1			1
2012-08-19					0
2012-08-20					0
2012-08-21					0
2012-08-22					0
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03			1		1
2012-09-04					0
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11					0
2012-09-12					0
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16					0
2012-09-17					0
2012-09-18					0
2012-09-19					0
2012-09-20					0
2012-09-21					0
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30		3			3

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10					0
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14		1			1
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01		3	1	1	5
2011-07-02	1	2			3
2011-07-03	5	1	1		7
2011-07-04			2	2	4
2011-07-05		4	9	6	19
2011-07-06	8	2	4	1	15
2011-07-07	1	3	7	6	17
2011-07-08	5	1	3	3	12
2011-07-09	3	6	9	4	22
2011-07-10	6	4	19	8	37
2011-07-11		3	3		6
2011-07-12	3	5	14	5	27
2011-07-13	1	18	19	10	48
2011-07-14	7	2	4	2	15
2011-07-15	3	5	3	3	14
2011-07-16	6	5	10	3	24
2011-07-17	1	34	12	8	55
2011-07-18				1	1
2011-07-19	2	5	11	6	24
2011-07-20	7	3	1	4	15
2011-07-21		1	4	3	8
2011-07-22	2		3	1	6
2011-07-23	1	1	7	1	10
2011-07-24		1	2		3
2011-07-25		1	3		4
2011-07-26	1			7	8
2011-07-27		1	3	5	9
2011-07-28	13	11	2		26
2011-07-29		4	10	2	16
2011-07-30		2	8		10
2011-07-31			3	1	4

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01		1	5	10	16
2011-08-02	3	3	6	9	21
2011-08-03	3	6	33	16	58
2011-08-04	9		6	3	18
2011-08-05	2	18	19	7	46
2011-08-06	7	51	40	22	120
2011-08-07	4	12	8		24
2011-08-08		1			1
2011-08-09	1	11	4	2	18
2011-08-10		4	5	1	10
2011-08-11	1	6	6	8	21
2011-08-12		27	33	8	68
2011-08-13	3	1	1	2	7
2011-08-14	12	23	12	4	51
2011-08-15	2	10	4		16
2011-08-16		7	4	10	21
2011-08-17		4	26	25	55
2011-08-18	18	16	51	25	110
2011-08-19	18	12	14	17	61
2011-08-20		7	17	13	37
2011-08-21	16	22	47	27	112
2011-08-22	12	13	20	15	60
2011-08-23	12	16	41	21	90
2011-08-24	7	6	16	9	38
2011-08-25	15	13	10	12	50
2011-08-26	9	50	49	22	130
2011-08-27	15	69	32	5	121
2011-08-28	2	2	2	6	12
2011-08-29	2	6	15	8	31
2011-08-30	3	10	21	2	36
2011-08-31	2	6	12	23	43

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	19	20	18	5	62
2011-09-02	3	3	11	3	20
2011-09-03		16	21	14	51
2011-09-04	2	49	22	12	85
2011-09-05	9	7	24	1	41
2011-09-06	1	2	2	1	6
2011-09-07	3		13	1	17
2011-09-08	4	5	15	2	26
2011-09-09			3	1	4
2011-09-10		3	18	12	33
2011-09-11	14	22	22	13	71
2011-09-12	8	13	5	3	29
2011-09-13	3	1	13	6	23
2011-09-14	2	4	1		7
2011-09-15			2	3	5
2011-09-16	4	1	18	8	31
2011-09-17	4	9	8	14	35
2011-09-18	20	31	9	1	61
2011-09-19	1	1	2		4
2011-09-20					0
2011-09-21		1	6	4	11
2011-09-22			2		2
2011-09-23			1	3	4
2011-09-24	2	2	1	5	10
2011-09-25	2	3	10	5	20
2011-09-26	1	4	1		6
2011-09-27		2	3	3	8
2011-09-28	1	1			2
2011-09-29			1		1
2011-09-30		1		4	5

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-10-03		1	1	2	4
2011-10-04		1	3	1	5
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2011-10-06	2	1	1	1	5
2011-10-07	1	1			2
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2011-10-09					0
2011-10-10					0
2011-10-11				3	3
2011-10-12					0
2011-10-13				1	1
2011-10-14					0
2011-10-15				1	1
2011-10-16					0
2011-10-17	1		1	1	3
2011-10-18					0
2011-10-19	1		4	1	6
2011-10-20				1	1
2011-10-21				1	1
2011-10-22		1		1	2
2011-10-23					0
2011-10-24			1		1
2011-10-25				1	1
2011-10-26			1		1
2011-10-27	2			1	3
2011-10-28		1		2	3
2011-10-29					0
2011-10-30					0
2011-10-31		1			1

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-11-05				1	1
2011-11-06					0
2011-11-07		2	2		4
2011-11-08			2		2
2011-11-09					0
2011-11-10			1		1
2011-11-11	1				1
2011-11-12				1	1
2011-11-13				1	1
2011-11-14					0
2011-11-15			1		1
2011-11-16			1		1
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30				1	1

2011 Dezember

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2011-12-04					0
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2011-12-06					0
2011-12-07					0
2011-12-08			1		1
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2012-07-03	5	1	1	1	8
2012-07-04	2	6			8
2012-07-05	1	4	2	2	9
2012-07-06	2	5	1	1	9
2012-07-07	2	5	1	1	9
2012-07-08		3	6	1	10
2012-07-09		5	16	1	22
2012-07-10	3	11	8	12	34
2012-07-11	12	4	4		20
2012-07-12		5	4		9
2012-07-13	1	9	4	1	15
2012-07-14	3	3			6
2012-07-15		4			4
2012-07-16		1		1	2
2012-07-17		7	2		9
2012-07-18	4	10	4	6	24
2012-07-19	3	9	12		24
2012-07-20					0
2012-07-21			3		3
2012-07-22			3	12	15
2012-07-23	10	19	18	10	57
2012-07-24		2	10	5	17
2012-07-25	3		4		7
2012-07-26	2	4	2	1	9
2012-07-27	1		1	1	3
2012-07-28		1		1	2
2012-07-29	2	1	7	2	12
2012-07-30	4	3	3	1	11
2012-07-31	7	5	3	1	16

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2012-08-03	2	2	4	6	14
2012-08-04	2	11	6	2	21
2012-08-05	3	2	2	3	10
2012-08-06	3	3	6	5	17
2012-08-07	5	26	43	21	95
2012-08-08	25	30	5	4	64
2012-08-09	4	38	4	3	49
2012-08-10	26	18	2	1	47
2012-08-11	16	36	5	1	58
2012-08-12	5	17	7	5	34
2012-08-13	17	47	5	1	70
2012-08-14	6	31	2	5	44
2012-08-15	7	10	23	18	58
2012-08-16	11	19	24	5	59
2012-08-17	12	48	28	22	110
2012-08-18	40	95	49	29	213
2012-08-19	65	90	14	5	174
2012-08-20	34	33	7	2	76
2012-08-21	24	25	24	36	109
2012-08-22	20	20	1	2	43
2012-08-23	3	4	1	1	9
2012-08-24		2	1	1	4
2012-08-25	2	3			5
2012-08-26	1	4	1		6
2012-08-27	1	4	6	7	18
2012-08-28	2	6	8	6	22
2012-08-29	3	9	12	6	30
2012-08-30	19	70	27	6	122
2012-08-31	33	31	21	28	113

2012 September

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2012-09-03	2	7	6	23	38
2012-09-04	32	55	65	16	168
2012-09-05	19	27	4	26	76
2012-09-06	9	48	22	3	82
2012-09-07	15	56	73	20	164
2012-09-08	29	24	14	6	73
2012-09-09	7	9	4	3	23
2012-09-10	7	9	6	2	24
2012-09-11	9	42	20	7	78
2012-09-12	30	26	5	3	64
2012-09-13	9	33	5	3	50
2012-09-14	12	17	36	3	68
2012-09-15	13	10	2		25
2012-09-16	3	9	2		14
2012-09-17	1	5	1		7
2012-09-18	1	1			2
2012-09-19	1	3	4	4	12
2012-09-20	8	11	9		28
2012-09-21	9	19	7	9	44
2012-09-22	4	5		1	10
2012-09-23	3	6	1	10	20
2012-09-24	3	12	3		18
2012-09-25	4	5	1		10
2012-09-26			1		1
2012-09-27			1		1
2012-09-28		8	2	2	12
2012-09-29	1	2	1	1	5
2012-09-30	3	7	1	3	14

2012 Oktober

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2012-10-04		2	1	2	5
2012-10-05	2				2
2012-10-06	2	2	1		5
2012-10-07		6	1		7
2012-10-08	1	9		1	11
2012-10-09	3	5			8
2012-10-10	2				2
2012-10-11					0
2012-10-12		2	4	2	8
2012-10-13	3	2		1	6
2012-10-14					0
2012-10-15		1	2	2	5
2012-10-16	3	3			6
2012-10-17		2			2
2012-10-18			1	1	2
2012-10-19					0
2012-10-20		1			1
2012-10-21	1	1			2
2012-10-22			1	2	3
2012-10-23	2	3			5
2012-10-24		4	1		5
2012-10-25		1			1
2012-10-26			1	7	8
2012-10-27	6	3		3	12
2012-10-28		1	1	1	3
2012-10-29	1	1		1	3
2012-10-30	1				1
2012-10-31			4	2	6

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2012-11-03	2			2	4
2012-11-04				2	2
2012-11-05	2	1			3
2012-11-06				1	1
2012-11-07	4		1		5
2012-11-08	1				1
2012-11-09					0
2012-11-10			1		1
2012-11-11		3	1		4
2012-11-12	1				1
2012-11-13					0
2012-11-14	1	10			11
2012-11-15			1		1
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19			1		1
2012-11-20					0
2012-11-21					0
2012-11-22		1		1	2
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30		2			2

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
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2012-12-06		1			1
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10				1	1
2012-12-11	3	1			4
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16				1	1
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20		1			1
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28		1			1
2012-12-29			1		1
2012-12-30					0
2012-12-31		1			1

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
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2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20		1			1
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28	1		1		2
2011-07-29					0
2011-07-30	1				1
2011-07-31			1		1

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-08-03					0
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2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
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2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26					0
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2011-08-28			1		1
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

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2011-09-08					0
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2011-09-10					0
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2011-09-12					0
2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17					0
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

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2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04					0
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2011-10-06					0
2011-10-07					0
2011-10-08		1			1
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16		1			1
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
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2011-10-29					0
2011-10-30			1		1
2011-10-31			1		1

2011 November

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2011-11-01					0
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2011-11-05					0
2011-11-06	1				1
2011-11-07					0
2011-11-08		2			2
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13			1		1
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18				1	1
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24			1		1
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

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2011-12-02					0
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2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
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2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
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2012-07-04					0
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10					0
2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
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2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16					0
2012-08-17					0
2012-08-18					0
2012-08-19					0
2012-08-20					0
2012-08-21		1			1
2012-08-22					0
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	5				5
2012-09-02					0
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2012-09-07					0
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2012-09-09					0
2012-09-10					0
2012-09-11					0
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2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16		1			1
2012-09-17					0
2012-09-18					0
2012-09-19					0
2012-09-20	1				1
2012-09-21					0
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01				1	1
2012-10-02					0
2012-10-03					0
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2012-10-05				1	1
2012-10-06					0
2012-10-07					0
2012-10-08		1			1
2012-10-09			1		1
2012-10-10					0
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14				2	2
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
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2012-10-22					0
2012-10-23	1				1
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27		1			1
2012-10-28	2				2
2012-10-29					0
2012-10-30					0
2012-10-31			2		2

2012 November

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2012-11-03					0
2012-11-04					0
2012-11-05			1		1
2012-11-06					0
2012-11-07					0
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2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25			1		1
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

Cucurbitaceae

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03					0
2011-08-04					0
2011-08-05					0
2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26					0
2011-08-27					0
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01					0
2011-09-02					0
2011-09-03					0
2011-09-04					0
2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12					0
2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17					0
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04					0
2011-10-05					0
2011-10-06					0
2011-10-07	1				1
2011-10-08					0
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03					0
2012-07-04					0
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10					0
2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16					0
2012-08-17					0
2012-08-18					0
2012-08-19					0
2012-08-20					0
2012-08-21					0
2012-08-22					0
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11					0
2012-09-12					0
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16					0
2012-09-17					0
2012-09-18					0
2012-09-19					0
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2012-09-21					0
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10					0
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

Cupressaceae / Taxaceae

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01	1	1		3	5
2011-07-02		1			1
2011-07-03	1	1			2
2011-07-04					0
2011-07-05			1		1
2011-07-06			1		1
2011-07-07	1				1
2011-07-08	5		2		7
2011-07-09	1	2	1		4
2011-07-10	5				5
2011-07-11	2				2
2011-07-12	1		1		2
2011-07-13					0
2011-07-14		3			3
2011-07-15	1	1	1	1	4
2011-07-16				3	3
2011-07-17		3	4		7
2011-07-18					0
2011-07-19		1	4		5
2011-07-20		2		2	4
2011-07-21		2	4		6
2011-07-22			2		2
2011-07-23	1	1	3		5
2011-07-24	2	1	1		4
2011-07-25	1				1
2011-07-26				1	1
2011-07-27			3	1	4
2011-07-28	1				1
2011-07-29				1	1
2011-07-30		2			2
2011-07-31		1	1		2

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01	1			1	2
2011-08-02		3			3
2011-08-03			3	1	4
2011-08-04	1	1	1		3
2011-08-05		3		2	5
2011-08-06		3		1	4
2011-08-07	2	2	1		5
2011-08-08				2	2
2011-08-09	1			1	2
2011-08-10		1	1		2
2011-08-11			1		1
2011-08-12		1		1	2
2011-08-13	1	2		1	4
2011-08-14	3				3
2011-08-15				1	1
2011-08-16	1				1
2011-08-17			1		1
2011-08-18	1		1	1	3
2011-08-19	1	1	1	2	5
2011-08-20		1	2		3
2011-08-21	1				1
2011-08-22					0
2011-08-23			2		2
2011-08-24	2		2		4
2011-08-25		2			2
2011-08-26		6	1		7
2011-08-27		1	4		5
2011-08-28					0
2011-08-29					0
2011-08-30		2	1	1	4
2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01		1			1
2011-09-02			1		1
2011-09-03		1			1
2011-09-04		1	4		5
2011-09-05	1	1	4	1	7
2011-09-06					0
2011-09-07			3	2	5
2011-09-08	2	2	3		7
2011-09-09		1	1		2
2011-09-10			1	1	2
2011-09-11	1			1	2
2011-09-12	4	2	1	1	8
2011-09-13					0
2011-09-14			1		1
2011-09-15		2			2
2011-09-16				1	1
2011-09-17		1	1	1	3
2011-09-18		1	3		4
2011-09-19					0
2011-09-20	1	1			2
2011-09-21		3			3
2011-09-22			1		1
2011-09-23	1	1	1		3
2011-09-24	2	1	1		4
2011-09-25	1	1	1		3
2011-09-26				1	1
2011-09-27		1	1	1	3
2011-09-28					0
2011-09-29			2		2
2011-09-30	1				1

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02			2		2
2011-10-03		1		2	3
2011-10-04					0
2011-10-05	1	1	3		5
2011-10-06		2	1	1	4
2011-10-07	1			1	2
2011-10-08		1	1		2
2011-10-09					0
2011-10-10	1				1
2011-10-11	1	1		1	3
2011-10-12	6	1			7
2011-10-13			1		1
2011-10-14	2			1	3
2011-10-15		2			2
2011-10-16		1	1		2
2011-10-17	5		2		7
2011-10-18		2			2
2011-10-19			2	2	4
2011-10-20					0
2011-10-21		2	2		4
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25			1		1
2011-10-26			1		1
2011-10-27			1		1
2011-10-28		2			2
2011-10-29	1	1			2
2011-10-30			1		1
2011-10-31			1		1

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01	1				1
2011-11-02					0
2011-11-03					0
2011-11-04			1	1	2
2011-11-05	3	2			5
2011-11-06		1	1		2
2011-11-07	1	1			2
2011-11-08		1	2		3
2011-11-09	2	1	1		4
2011-11-10			3		3
2011-11-11					0
2011-11-12				1	1
2011-11-13					0
2011-11-14		1			1
2011-11-15					0
2011-11-16			1		1
2011-11-17					0
2011-11-18				1	1
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05		3			3
2011-12-06					0
2011-12-07					0
2011-12-08		1			1
2011-12-09		1			1
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01		11	4	4	19
2012-07-02	4		2	2	8
2012-07-03		1	3	3	7
2012-07-04		2	1	2	5
2012-07-05	1		2		3
2012-07-06					0
2012-07-07	2	1			3
2012-07-08		4			4
2012-07-09	8	1	9		18
2012-07-10	7	4	2		13
2012-07-11	1		3		4
2012-07-12		2	4		6
2012-07-13		3	4	3	10
2012-07-14	1	2	1		4
2012-07-15		2			2
2012-07-16					0
2012-07-17		1	1	1	3
2012-07-18		2	1	6	9
2012-07-19	3				3
2012-07-20					0
2012-07-21					0
2012-07-22			15	1	16
2012-07-23	1	5	1		7
2012-07-24			1		1
2012-07-25			1		1
2012-07-26	3	2	1	1	7
2012-07-27					0
2012-07-28				1	1
2012-07-29				1	1
2012-07-30			3		3
2012-07-31	1	6	1	1	9

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01	1		3		4
2012-08-02					0
2012-08-03					0
2012-08-04			1		1
2012-08-05		1	1		2
2012-08-06	1		1		2
2012-08-07		2		1	3
2012-08-08	1	13	1		15
2012-08-09		3		1	4
2012-08-10	1	1	2		4
2012-08-11	1		3	2	6
2012-08-12		4	3	4	11
2012-08-13	2	1	1	1	5
2012-08-14		1	2		3
2012-08-15	2	2	1		5
2012-08-16			3		3
2012-08-17		1		2	3
2012-08-18	1	2	5	3	11
2012-08-19	2	2			4
2012-08-20		2	1		3
2012-08-21	4	5	1		10
2012-08-22	1	2			3
2012-08-23					0
2012-08-24			1		1
2012-08-25		1			1
2012-08-26					0
2012-08-27					0
2012-08-28	1				1
2012-08-29		1	3	1	5
2012-08-30		1	3	1	5
2012-08-31	3		1		4

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	1				1
2012-09-02					0
2012-09-03	2	1	1	12	16
2012-09-04	4	1		1	6
2012-09-05		1	3	6	10
2012-09-06		3			3
2012-09-07		3	1		4
2012-09-08	1				1
2012-09-09		2	1	1	4
2012-09-10			1	2	3
2012-09-11	1	4		4	9
2012-09-12	1	1	2		4
2012-09-13		1	3	1	5
2012-09-14		1	1		2
2012-09-15	1				1
2012-09-16			1		1
2012-09-17				2	2
2012-09-18	2	2			4
2012-09-19		1	1	2	4
2012-09-20	1	2	3		6
2012-09-21	1	2		1	4
2012-09-22					0
2012-09-23		1	2		3
2012-09-24	2				2
2012-09-25	1	1	2		4
2012-09-26		1			1
2012-09-27		2			2
2012-09-28	1		2		3
2012-09-29		2	1		3
2012-09-30	3	1			4

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01	2	1	1	1	5
2012-10-02		1	7	5	13
2012-10-03	4	14		1	19
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2012-10-07	1				1
2012-10-08				2	2
2012-10-09				1	1
2012-10-10					0
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2012-10-13	1				1
2012-10-14					0
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2012-10-16			1	1	2
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20	1			1	2
2012-10-21			1	1	2
2012-10-22		1			1
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26		1		42	43
2012-10-27	57	9	14	8	88
2012-10-28	3	3			6
2012-10-29					0
2012-10-30		1	1		2
2012-10-31			6		6

2012 November

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2012-11-06	2	1	2	1	6
2012-11-07		1	1	1	3
2012-11-08	1	1			2
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2012-11-11		1	3	5	9
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2012-11-14		1			1
2012-11-15			1		1
2012-11-16					0
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2012-11-19					0
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2012-11-22	1	2	1		4
2012-11-23		2	2	3	7
2012-11-24	2	2		1	5
2012-11-25	2				2
2012-11-26	1		1		2
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2012-11-28				1	1
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2012 Dezember

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2012-12-10					0
2012-12-11		1	1		2
2012-12-12					0
2012-12-13					0
2012-12-14					0
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2012-12-16					0
2012-12-17					0
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2012-12-21		1			1
2012-12-22		1			1
2012-12-23					0
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2012-12-25					0
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2012-12-27	1			1	2
2012-12-28	2			1	3
2012-12-29	2				2
2012-12-30	1		1		2
2012-12-31				9	9

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2011 August

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2011 September

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2011 Oktober

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2011 November

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2011 Dezember

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2011-12-11					0
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2012 Juli

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2012 August

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2012 September

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2012 November

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2011 August

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2011 September

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2011 Oktober

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2011 November

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2011 Dezember

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2012 Juli

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2012-07-23	1				1
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2012 August

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2012 September

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2012 November

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2012 Dezember

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2011 August

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2011 September

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2011 Oktober

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2011 November

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2011 Dezember

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2012 August

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2012 September

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2012 November

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2011 August

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2011 September

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2011 November

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2011 Dezember

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2012 Juli

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2012 August

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2012 September

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2012 November

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2011 September

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2011 November

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2012 August

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2012 September

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2012 November

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2011 August

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2011 September

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2012 August

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2012 September

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2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01		3			3
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05		3	1		4
2011-07-06			2	1	3
2011-07-07	1	2		1	4
2011-07-08	1			1	2
2011-07-09		1	1	3	5
2011-07-10	4	2	3	3	12
2011-07-11		1		1	2
2011-07-12	1		1	2	4
2011-07-13	2	5	1	1	9
2011-07-14					0
2011-07-15					0
2011-07-16			3		3
2011-07-17	3	2	1		6
2011-07-18		1			1
2011-07-19		1	1		2
2011-07-20		2			2
2011-07-21					0
2011-07-22		1			1
2011-07-23		1			1
2011-07-24					0
2011-07-25			3		3
2011-07-26		1	2	1	4
2011-07-27			7	1	8
2011-07-28	3	8	3		14
2011-07-29		1	2		3
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01		1		2	3
2011-08-02		4	9	5	18
2011-08-03			6	1	7
2011-08-04			1	1	2
2011-08-05	1	8	5		14
2011-08-06	2	18	6	4	30
2011-08-07		1			1
2011-08-08				1	1
2011-08-09	1				1
2011-08-10			1		1
2011-08-11	1	10	4		15
2011-08-12	1	5	7	1	14
2011-08-13	1				1
2011-08-14	2	9	3	1	15
2011-08-15	2	6	1		9
2011-08-16		1	3	1	5
2011-08-17			19	11	30
2011-08-18		8	12	1	21
2011-08-19		2	2	6	10
2011-08-20	5	9	13	8	35
2011-08-21	5	14	20	8	47
2011-08-22	4	11	5	4	24
2011-08-23		5	23	3	31
2011-08-24	2		2	5	9
2011-08-25	3	4	6	9	22
2011-08-26	6	15	9	2	32
2011-08-27		26	7	1	34
2011-08-28			1		1
2011-08-29	1	1	7	4	13
2011-08-30		13	6	1	20
2011-08-31			13	12	25

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	9	11	10	8	38
2011-09-02	1		2	1	4
2011-09-03		1	14	14	29
2011-09-04	5	37	3	5	50
2011-09-05	8		8	2	18
2011-09-06	4	2		2	8
2011-09-07			1		1
2011-09-08	2	3		1	6
2011-09-09		4	1		5
2011-09-10		7	5	7	19
2011-09-11		7	28	8	43
2011-09-12	3	1	2	1	7
2011-09-13		2	12	2	16
2011-09-14					0
2011-09-15	1	1			2
2011-09-16		1	8	14	23
2011-09-17	12	3	14	21	50
2011-09-18	6	25	1		32
2011-09-19	1		2		3
2011-09-20				1	1
2011-09-21			15	9	24
2011-09-22					0
2011-09-23			2	3	5
2011-09-24		1	5	7	13
2011-09-25	5	6	21	3	35
2011-09-26	1		19	1	21
2011-09-27	1		2	2	5
2011-09-28		2			2
2011-09-29			3	2	5
2011-09-30	1		6		7

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01	1	2	17	1	21
2011-10-02	1		12	4	17
2011-10-03	1	2	3	6	12
2011-10-04	1	1			2
2011-10-05		4	2	1	7
2011-10-06		1	30	5	36
2011-10-07	2	2		1	5
2011-10-08		2			2
2011-10-09					0
2011-10-10					0
2011-10-11				1	1
2011-10-12	1	1		1	3
2011-10-13		2	2	2	6
2011-10-14		14	3		17
2011-10-15	1		3		4
2011-10-16		11	8		19
2011-10-17		7	2		9
2011-10-18		1	6		7
2011-10-19			19	16	35
2011-10-20	1				1
2011-10-21			6		6
2011-10-22			7	8	15
2011-10-23	3				3
2011-10-24					0
2011-10-25	1				1
2011-10-26		2	10	5	17
2011-10-27	1	3	13	5	22
2011-10-28	3	10	28	14	55
2011-10-29	2		5	4	11
2011-10-30			21	17	38
2011-10-31	6	2	13	8	29

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01	1				1
2011-11-02			1		1
2011-11-03		1			1
2011-11-04		2	53	17	72
2011-11-05	11	3	4	6	24
2011-11-06	3	13	19		35
2011-11-07	1	4	6		11
2011-11-08		6	12		18
2011-11-09	1	1	6	9	17
2011-11-10	1		2		3
2011-11-11		1	2		3
2011-11-12		2	4	2	8
2011-11-13	2		3	2	7
2011-11-14			1		1
2011-11-15	1				1
2011-11-16	1				1
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20	1	1			2
2011-11-21					0
2011-11-22				1	1
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27			1		1
2011-11-28					0
2011-11-29	1				1
2011-11-30				2	2

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05	1				1
2011-12-06					0
2011-12-07		1			1
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01			7		7
2012-07-02	1	1	7	1	10
2012-07-03	1				1
2012-07-04		1	1	1	3
2012-07-05		1			1
2012-07-06		1	1	2	4
2012-07-07	2	1	1		4
2012-07-08					0
2012-07-09		2			2
2012-07-10	1	1			2
2012-07-11	2	4			6
2012-07-12				1	1
2012-07-13					0
2012-07-14					0
2012-07-15		2			2
2012-07-16					0
2012-07-17					0
2012-07-18	1	5		1	7
2012-07-19			4	1	5
2012-07-20					0
2012-07-21		1	3	1	5
2012-07-22			1	1	2
2012-07-23	2	7	3	1	13
2012-07-24			1	2	3
2012-07-25			1		1
2012-07-26					0
2012-07-27	1				1
2012-07-28					0
2012-07-29		2	1		3
2012-07-30	1			1	2
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01	5				5
2012-08-02			1		1
2012-08-03		1			1
2012-08-04					0
2012-08-05			2		2
2012-08-06	1				1
2012-08-07		6	19	2	27
2012-08-08	1	5			6
2012-08-09		6			6
2012-08-10	2	2		4	8
2012-08-11	1	24	8	1	34
2012-08-12		5	2	2	9
2012-08-13	3	7	9	3	22
2012-08-14	1	16		5	22
2012-08-15	3	5	2	1	11
2012-08-16	1	3		2	6
2012-08-17	3	9	3		15
2012-08-18	1	17	24	6	48
2012-08-19	15	16		3	34
2012-08-20		15	2		17
2012-08-21	1		2	4	7
2012-08-22		2			2
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27		1			1
2012-08-28	2			3	5
2012-08-29	1		1		2
2012-08-30	1	11	7		19
2012-08-31	4	16	5	2	27

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	37	34	1	1	73
2012-09-02					0
2012-09-03				1	1
2012-09-04	3	21	43	6	73
2012-09-05	15	10	1	3	29
2012-09-06	3	30	6	1	40
2012-09-07	3	17	63	11	94
2012-09-08	21	18	6	1	46
2012-09-09	1	2			3
2012-09-10		1		1	2
2012-09-11	3	3	8		14
2012-09-12	2	17		1	20
2012-09-13	1	35	4		40
2012-09-14	4	26	31	1	62
2012-09-15	17	23	2	1	43
2012-09-16			2		2
2012-09-17	1	5	1		7
2012-09-18					0
2012-09-19			6	1	7
2012-09-20	11	20	2	1	34
2012-09-21	7	49	14	6	76
2012-09-22	15	33			48
2012-09-23	2	11	5	6	24
2012-09-24	2	19	4		25
2012-09-25		4	3	1	8
2012-09-26					0
2012-09-27		1	1		2
2012-09-28		60	22	2	84
2012-09-29	1	29	3		33
2012-09-30	5	54	2	3	64

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01	1	2	1	1	5
2012-10-02		1	27	2	30
2012-10-03	10	86	1		97
2012-10-04	1	1		4	6
2012-10-05	3	5			8
2012-10-06			1		1
2012-10-07	2	33	8		43
2012-10-08	8	36	1		45
2012-10-09	1	36	1	8	46
2012-10-10	1		1		2
2012-10-11					0
2012-10-12		10	31	3	44
2012-10-13	22	21	2	5	50
2012-10-14	14	32			46
2012-10-15	5	6	4	14	29
2012-10-16	4	19	1	4	28
2012-10-17	5	28			33
2012-10-18	1			1	2
2012-10-19	7	14			21
2012-10-20		1			1
2012-10-21	1	4	1	11	17
2012-10-22	4	43		1	48
2012-10-23	3	27			30
2012-10-24		18			18
2012-10-25					0
2012-10-26	2				2
2012-10-27		2			2
2012-10-28				1	1
2012-10-29	2	25	4	1	32
2012-10-30					0
2012-10-31		1	1		2

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01		3	1		4
2012-11-02				9	9
2012-11-03	6	4			10
2012-11-04	14			2	16
2012-11-05		1	1		2
2012-11-06				8	8
2012-11-07	3	6			9
2012-11-08		1			1
2012-11-09					0
2012-11-10		10	4	2	16
2012-11-11	1	2	8	7	18
2012-11-12	11	5	1	1	18
2012-11-13	3	6			9
2012-11-14			1		1
2012-11-15	1				1
2012-11-16	2				2
2012-11-17					0
2012-11-18		3			3
2012-11-19		7	2		9
2012-11-20		5	1	1	7
2012-11-21	1	7	11	1	20
2012-11-22			2		2
2012-11-23					0
2012-11-24		5		5	10
2012-11-25	1				1
2012-11-26					0
2012-11-27					0
2012-11-28		5			5
2012-11-29			1		1
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02		2			2
2012-12-03	1				1
2012-12-04		2		2	4
2012-12-05	4	25			29
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09				1	1
2012-12-10					0
2012-12-11		1			1
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31		1			1

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18			4	1	5
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03					0
2011-08-04					0
2011-08-05					0
2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26					0
2011-08-27					0
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01					0
2011-09-02					0
2011-09-03					0
2011-09-04					0
2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12					0
2011-09-13					0
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2011-09-16					0
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2011-09-18					0
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2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04	2				2
2011-10-05					0
2011-10-06					0
2011-10-07					0
2011-10-08					0
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08			1		1
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03					0
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2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10					0
2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
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2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
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2012-08-12					0
2012-08-13					0
2012-08-14					0
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2012-08-16					0
2012-08-17					0
2012-08-18					0
2012-08-19					0
2012-08-20					0
2012-08-21					0
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2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
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2012-09-16					0
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2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
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2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01			1	1	2
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05		1			1
2011-07-06	1				1
2011-07-07			1		1
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16	1				1
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29	1				1
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03					0
2011-08-04					0
2011-08-05					0
2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
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2011-08-15					0
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2011-08-18					0
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2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25		1	1		2
2011-08-26					0
2011-08-27					0
2011-08-28					0
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2011-08-31					0

2011 September

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2011-09-03					0
2011-09-04			1		1
2011-09-05		1			1
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10	1			1	2
2011-09-11			1		1
2011-09-12				3	3
2011-09-13	4			1	5
2011-09-14	1				1
2011-09-15			2		2
2011-09-16	2				2
2011-09-17					0
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21				1	1
2011-09-22				3	3
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27				2	2
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-10-02			1		1
2011-10-03	1				1
2011-10-04	2	1	2	4	9
2011-10-05		1	3		4
2011-10-06		2			2
2011-10-07					0
2011-10-08			1		1
2011-10-09					0
2011-10-10					0
2011-10-11			2	3	5
2011-10-12	1			1	2
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18			1		1
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
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2011 November

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2011-11-01					0
2011-11-02			1		1
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13			1		1
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28	1				1
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02		1			1
2012-07-03	1				1
2012-07-04			1		1
2012-07-05					0
2012-07-06		1		1	2
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10			1		1
2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28		1			1
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
2012-08-10					0
2012-08-11	2				2
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15				1	1
2012-08-16					0
2012-08-17					0
2012-08-18			1		1
2012-08-19					0
2012-08-20					0
2012-08-21					0
2012-08-22					0
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05				1	1
2012-09-06		1			1
2012-09-07		1			1
2012-09-08					0
2012-09-09	1				1
2012-09-10	1				1
2012-09-11					0
2012-09-12					0
2012-09-13		2			2
2012-09-14	3	2			5
2012-09-15					0
2012-09-16					0
2012-09-17	1				1
2012-09-18					0
2012-09-19					0
2012-09-20		1			1
2012-09-21	2	1			3
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26			1		1
2012-09-27					0
2012-09-28	2				2
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01		1	1		2
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07	2	2			4
2012-10-08	2				2
2012-10-09					0
2012-10-10	1				1
2012-10-11					0
2012-10-12					0
2012-10-13		2			2
2012-10-14		3			3
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30		1			1
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2012-11-02					0
2012-11-03		1			1
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11	1				1
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06		1			1
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01	1	1	4		6
2011-07-02	1		1		2
2011-07-03		1	4	2	7
2011-07-04		1		1	2
2011-07-05			2	1	3
2011-07-06	1		3		4
2011-07-07	1				1
2011-07-08	3	1		3	7
2011-07-09	1	1	2	1	5
2011-07-10	5	2	2		9
2011-07-11	1	2	2	4	9
2011-07-12		1			1
2011-07-13	1		2		3
2011-07-14	2	2		1	5
2011-07-15		1	1		2
2011-07-16		1			1
2011-07-17			3		3
2011-07-18					0
2011-07-19		1	1	1	3
2011-07-20	1	2	1	4	8
2011-07-21		1	1	12	14
2011-07-22	1		1	1	3
2011-07-23					0
2011-07-24		1		1	2
2011-07-25				1	1
2011-07-26			1		1
2011-07-27					0
2011-07-28					0
2011-07-29		2			2
2011-07-30		1			1
2011-07-31			1		1

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
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2011-08-03					0
2011-08-04		1			1
2011-08-05		1			1
2011-08-06			3		3
2011-08-07					0
2011-08-08					0
2011-08-09	2			1	3
2011-08-10				1	1
2011-08-11					0
2011-08-12		1			1
2011-08-13			1		1
2011-08-14	1	1			2
2011-08-15		2			2
2011-08-16					0
2011-08-17			2		2
2011-08-18				1	1
2011-08-19			1		1
2011-08-20		1			1
2011-08-21					0
2011-08-22		1			1
2011-08-23	1	1	1		3
2011-08-24				1	1
2011-08-25	2	1	1		4
2011-08-26	1		2	2	5
2011-08-27		2	5		7
2011-08-28	1				1
2011-08-29					0
2011-08-30		1			1
2011-08-31	2	2			4

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	2				2
2011-09-02					0
2011-09-03					0
2011-09-04		2			2
2011-09-05		1	1		2
2011-09-06					0
2011-09-07			4	5	9
2011-09-08		1			1
2011-09-09					0
2011-09-10					0
2011-09-11	1				1
2011-09-12	3		1	1	5
2011-09-13				1	1
2011-09-14		1			1
2011-09-15		7	2		9
2011-09-16	1				1
2011-09-17					0
2011-09-18		2			2
2011-09-19					0
2011-09-20	1				1
2011-09-21		1			1
2011-09-22			2	1	3
2011-09-23		1			1
2011-09-24		2		1	3
2011-09-25	1	1	4	2	8
2011-09-26			1	3	4
2011-09-27			12	2	14
2011-09-28	1	3			4
2011-09-29			1	1	2
2011-09-30	2	7	4	1	14

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01		1			1
2011-10-02			6		6
2011-10-03	1	3			4
2011-10-04	1	2	5	1	9
2011-10-05	2		3	3	8
2011-10-06			1	2	3
2011-10-07	16	18		1	35
2011-10-08	1	3		1	5
2011-10-09			1	1	2
2011-10-10					0
2011-10-11	1	3	1	2	7
2011-10-12		1			1
2011-10-13					0
2011-10-14			1		1
2011-10-15					0
2011-10-16					0
2011-10-17		1			1
2011-10-18					0
2011-10-19			1		1
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23		1			1
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27				1	1
2011-10-28					0
2011-10-29					0
2011-10-30		2			2
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04			1	1	2
2011-11-05					0
2011-11-06		1		1	2
2011-11-07	1				1
2011-11-08			1		1
2011-11-09					0
2011-11-10				1	1
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14	1				1
2011-11-15					0
2011-11-16					0
2011-11-17		1			1
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26			1		1
2011-11-27				1	1
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04			1		1
2011-12-05		1		1	2
2011-12-06			1		1
2011-12-07			1		1
2011-12-08		4	1		5
2011-12-09		1			1
2011-12-10	1				1
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01	5	9	10	6	30
2012-07-02	5	5	7	3	20
2012-07-03	11	2	1	3	17
2012-07-04		7			7
2012-07-05	1	1	1	1	4
2012-07-06	1	1		3	5
2012-07-07	2		1		3
2012-07-08	1	4	1	5	11
2012-07-09	41	18	9		68
2012-07-10	4	2		2	8
2012-07-11	5	1	1		7
2012-07-12	1	5	5		11
2012-07-13	1	2	1		4
2012-07-14	1		1		2
2012-07-15					0
2012-07-16	1			1	2
2012-07-17	1	4	1	1	7
2012-07-18	4	3	2	5	14
2012-07-19	2	1	7	3	13
2012-07-20	1	1	1		3
2012-07-21			2		2
2012-07-22		3			3
2012-07-23	2	1		3	6
2012-07-24					0
2012-07-25	3			1	4
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29	1				1
2012-07-30					0
2012-07-31	1	1			2

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01	1		1		2
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05			1		1
2012-08-06			1		1
2012-08-07	1		1		2
2012-08-08	1		2		3
2012-08-09		3		2	5
2012-08-10					0
2012-08-11	2				2
2012-08-12		1			1
2012-08-13		1			1
2012-08-14				2	2
2012-08-15	1		2	3	6
2012-08-16		1	4		5
2012-08-17		1			1
2012-08-18		2		2	4
2012-08-19		1		1	2
2012-08-20			1		1
2012-08-21	6	1	1	2	10
2012-08-22					0
2012-08-23		1			1
2012-08-24		1			1
2012-08-25					0
2012-08-26					0
2012-08-27		1	1	1	3
2012-08-28					0
2012-08-29	1	2	1		4
2012-08-30			2		2
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03			1	3	4
2012-09-04	2	1	1		4
2012-09-05	1	1		5	7
2012-09-06			1		1
2012-09-07				2	2
2012-09-08					0
2012-09-09	1	1			2
2012-09-10		1		1	2
2012-09-11	2	1	1		4
2012-09-12			4	4	8
2012-09-13					0
2012-09-14		1			1
2012-09-15	1		1	1	3
2012-09-16	1	2	2	2	7
2012-09-17	1			1	2
2012-09-18		1			1
2012-09-19	2		1		3
2012-09-20	5	23	5	2	35
2012-09-21	37	5		1	43
2012-09-22	9	5		1	15
2012-09-23	2	2	3	4	11
2012-09-24	2	3	1		6
2012-09-25	4	27	8		39
2012-09-26		1	2	1	4
2012-09-27	2	2	2	1	7
2012-09-28	5	27	9	2	43
2012-09-29	3	12	4		19
2012-09-30	2	1	2		5

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01	7	6	4	4	21
2012-10-02	2	4	41	31	78
2012-10-03	10	58	1	3	72
2012-10-04		1			1
2012-10-05	2	7	2	24	35
2012-10-06	1	5	2	1	9
2012-10-07	1	5			6
2012-10-08	1	4		1	6
2012-10-09	2	8		1	11
2012-10-10		3			3
2012-10-11				1	1
2012-10-12	1	4	4		9
2012-10-13	3		2		5
2012-10-14		1	2		3
2012-10-15		1	1	1	3
2012-10-16			1		1
2012-10-17	2		1		3
2012-10-18					0
2012-10-19					0
2012-10-20				1	1
2012-10-21		2	1		3
2012-10-22		1		1	2
2012-10-23	2				2
2012-10-24	1	1			2
2012-10-25		1			1
2012-10-26	2		2	63	67
2012-10-27	72	13	16	11	112
2012-10-28	6	1	1		8
2012-10-29		2	1		3
2012-10-30					0
2012-10-31			11		11

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01			3		3
2012-11-02	1		1	1	3
2012-11-03	1			2	3
2012-11-04		1	2	2	5
2012-11-05			2		2
2012-11-06	1		2	2	5
2012-11-07					0
2012-11-08	1				1
2012-11-09					0
2012-11-10	2		1	1	4
2012-11-11	1	4	1	1	7
2012-11-12		1			1
2012-11-13	1			1	2
2012-11-14	2	2			4
2012-11-15					0
2012-11-16			1		1
2012-11-17				1	1
2012-11-18			2		2
2012-11-19		1	1		2
2012-11-20	1	2		1	4
2012-11-21			1		1
2012-11-22	1			2	3
2012-11-23			1		1
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27				1	1
2012-11-28	1				1
2012-11-29		2	1		3
2012-11-30		1			1

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03				1	1
2012-12-04	2	1		1	4
2012-12-05	2	2			4
2012-12-06	1	3			4
2012-12-07		2	1		3
2012-12-08	1	2	1		4
2012-12-09	2			1	3
2012-12-10	1				1
2012-12-11		1			1
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16			8		8
2012-12-17		1		1	2
2012-12-18					0
2012-12-19		2			2
2012-12-20			3	4	7
2012-12-21		3		1	4
2012-12-22		3			3
2012-12-23					0
2012-12-24	1				1
2012-12-25	1				1
2012-12-26				1	1
2012-12-27			1		1
2012-12-28				1	1
2012-12-29					0
2012-12-30					0
2012-12-31					0

Plantago spp.

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01	4	13	9	5	31
2011-07-02	2	6	6	4	18
2011-07-03	1	6	12	10	29
2011-07-04	4	10	5	1	20
2011-07-05	6	8	9	9	32
2011-07-06	5	11	4	6	26
2011-07-07	2	10	6	5	23
2011-07-08	33	26	15	6	80
2011-07-09	3	17	7	13	40
2011-07-10	26	14	14	8	62
2011-07-11	22	20	17	9	68
2011-07-12		3		1	4
2011-07-13	3	15	9	5	32
2011-07-14	26	17	20	6	69
2011-07-15	6	11	5	9	31
2011-07-16	7	16	3	3	29
2011-07-17	2	13	6	11	32
2011-07-18	5	9	2	3	19
2011-07-19	4	1	2	2	9
2011-07-20	7	20	14	9	50
2011-07-21	1	3	12		16
2011-07-22	1	11	2	3	17
2011-07-23	7	3		2	12
2011-07-24	1	4	2		7
2011-07-25	3	1	1	2	7
2011-07-26	1	5			6
2011-07-27	1		1		2
2011-07-28	2	2	1		5
2011-07-29	1	5	5	3	14
2011-07-30	2	13	16	2	33
2011-07-31	1	7	7	1	16

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01	1	1	1		3
2011-08-02		4	1	2	7
2011-08-03	2	1	14	4	21
2011-08-04	6	1	7	5	19
2011-08-05	6	14	7	8	35
2011-08-06	7	14	10	10	41
2011-08-07	1	19	15		35
2011-08-08		1	5	2	8
2011-08-09	3	6	3	1	13
2011-08-10	4	3	11	5	23
2011-08-11	5	2	8	5	20
2011-08-12	5	4	6	3	18
2011-08-13	10	8	6	6	30
2011-08-14	4	1	4	6	15
2011-08-15	15	5	6		26
2011-08-16		2	2	2	6
2011-08-17	2	5	2	5	14
2011-08-18	3	10	14	7	34
2011-08-19	10	11	18	2	41
2011-08-20	3	5	11	5	24
2011-08-21	5	7	10	5	27
2011-08-22	12	3	2	9	26
2011-08-23	2	12	9	5	28
2011-08-24	8	4	2	5	19
2011-08-25	9	7	8	4	28
2011-08-26	2	8	10	8	28
2011-08-27	3	18	24	4	49
2011-08-28	1	3		1	5
2011-08-29	4	2	4	4	14
2011-08-30	4	7	6	9	26
2011-08-31	1	9	6	3	19

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	6	5	1		12
2011-09-02	1			1	2
2011-09-03	1	1	1	2	5
2011-09-04		2	1	1	4
2011-09-05	6	3	5	1	15
2011-09-06	4	2	2		8
2011-09-07		4	19	12	35
2011-09-08	4	7	15	3	29
2011-09-09		1	1	2	4
2011-09-10	3	2	3	2	10
2011-09-11	3	4		3	10
2011-09-12	24	7	13	5	49
2011-09-13	5	7	6	4	22
2011-09-14	4	4	1	1	10
2011-09-15		7		3	10
2011-09-16	2	2	6	8	18
2011-09-17			4	1	5
2011-09-18	1	3	4		8
2011-09-19		1		1	2
2011-09-20	1	1			2
2011-09-21			1	1	2
2011-09-22		1	1	1	3
2011-09-23	2	2		1	5
2011-09-24				1	1
2011-09-25	1	2			3
2011-09-26	1		1		2
2011-09-27				2	2
2011-09-28	1	1			2
2011-09-29			1		1
2011-09-30		1	1		2

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01	2				2
2011-10-02	1			1	2
2011-10-03	5				5
2011-10-04					0
2011-10-05		1			1
2011-10-06			4		4
2011-10-07		1			1
2011-10-08	1				1
2011-10-09					0
2011-10-10					0
2011-10-11		1		2	3
2011-10-12					0
2011-10-13				1	1
2011-10-14					0
2011-10-15				1	1
2011-10-16					0
2011-10-17					0
2011-10-18		1			1
2011-10-19	1		1		2
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26			1		1
2011-10-27					0
2011-10-28	2				2
2011-10-29					0
2011-10-30					0
2011-10-31			1		1

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05	1	2			3
2011-11-06	1				1
2011-11-07		1			1
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11				1	1
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01	4	4	11	1	20
2012-07-02	4		4	3	11
2012-07-03	9	5	2	7	23
2012-07-04	7	11	1	3	22
2012-07-05		1	2	2	5
2012-07-06	4	3	1	1	9
2012-07-07	1	4	3		8
2012-07-08	3	4	4	2	13
2012-07-09	3	4	8	2	17
2012-07-10	2	1	4	4	11
2012-07-11	6	5	8	3	22
2012-07-12	6	17	11	2	36
2012-07-13	4	4	6	4	18
2012-07-14	3	9			12
2012-07-15	1	7	1	1	10
2012-07-16				4	4
2012-07-17	4	6	7	5	22
2012-07-18	12	9	13	6	40
2012-07-19	4	5	5	4	18
2012-07-20	1	1		1	3
2012-07-21		1		1	2
2012-07-22		1	4	4	9
2012-07-23	4	8	3	6	21
2012-07-24	1		2	4	7
2012-07-25	1	1	5		7
2012-07-26	1	2	1	2	6
2012-07-27	1	1		3	5
2012-07-28	1		1		2
2012-07-29	2	1	4	3	10
2012-07-30		2	3	1	6
2012-07-31	1	2	4	1	8

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01		3	9	1	13
2012-08-02			1	1	2
2012-08-03	1	1		1	3
2012-08-04	2	3	4		9
2012-08-05	3	3		1	7
2012-08-06	1	1	3	1	6
2012-08-07	2	8	9	8	27
2012-08-08	4	10	9	9	32
2012-08-09	7	2	4	1	14
2012-08-10		3	4		7
2012-08-11		2	1	1	4
2012-08-12	2	4	22	4	32
2012-08-13	3	8	5	7	23
2012-08-14	11	6	22	2	41
2012-08-15	7	8	8	1	24
2012-08-16	4	4	25	8	41
2012-08-17	4	8	10	7	29
2012-08-18	5	12	11	4	32
2012-08-19	5	10	7	2	24
2012-08-20		5	5		10
2012-08-21	10	5	4	4	23
2012-08-22	3	5	1		9
2012-08-23	1		1		2
2012-08-24	1	2			3
2012-08-25	2	2			4
2012-08-26			1		1
2012-08-27			7		7
2012-08-28	2	3	4	1	10
2012-08-29	4	14	3		21
2012-08-30	1	3	7	2	13
2012-08-31	1	1	1		3

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	2	1	1	2	6
2012-09-02	1		1		2
2012-09-03			1	7	8
2012-09-04	4	5	2	1	12
2012-09-05	2	2	1	9	14
2012-09-06	1				1
2012-09-07	2	1		4	7
2012-09-08	1	3		1	5
2012-09-09	4	9	11	4	28
2012-09-10	3	1	1		5
2012-09-11	8	5	3	2	18
2012-09-12	4	2	2	2	10
2012-09-13	1	3			4
2012-09-14	1	3	1		5
2012-09-15			3		3
2012-09-16	4	3	3	2	12
2012-09-17	1	2		1	4
2012-09-18				1	1
2012-09-19		1			1
2012-09-20	1			1	2
2012-09-21	1	1		1	3
2012-09-22				1	1
2012-09-23	1	1			2
2012-09-24					0
2012-09-25				1	1
2012-09-26					0
2012-09-27	1	1			2
2012-09-28	1	1			2
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01	1				1
2012-10-02			6	1	7
2012-10-03	1				1
2012-10-04			1		1
2012-10-05	1		1		2
2012-10-06		1	3	1	5
2012-10-07		1			1
2012-10-08	1			1	2
2012-10-09					0
2012-10-10					0
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17	1				1
2012-10-18					0
2012-10-19					0
2012-10-20				1	1
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26				2	2
2012-10-27		2	1		3
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02				1	1
2012-11-03					0
2012-11-04				1	1
2012-11-05				2	2
2012-11-06		1			1
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11		1			1
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21				1	1
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07				1	1
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21		1			1
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

Platanus spp.

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04			1		1
2011-07-05					0
2011-07-06			1		1
2011-07-07			1		1
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24		2			2
2011-07-25	1				1
2011-07-26					0
2011-07-27		1			1
2011-07-28					0
2011-07-29					0
2011-07-30				1	1
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02		2			2
2011-08-03		1	1		2
2011-08-04				1	1
2011-08-05					0
2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17			1		1
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25	1				1
2011-08-26			1		1
2011-08-27			1	1	2
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01					0
2011-09-02					0
2011-09-03					0
2011-09-04					0
2011-09-05					0
2011-09-06		1			1
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12					0
2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17					0
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04					0
2011-10-05					0
2011-10-06					0
2011-10-07					0
2011-10-08					0
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04				9	9
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01		1			1
2012-07-02					0
2012-07-03					0
2012-07-04		1			1
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08		1			1
2012-07-09					0
2012-07-10					0
2012-07-11		1	3		4
2012-07-12		1			1
2012-07-13					0
2012-07-14					0
2012-07-15		1			1
2012-07-16			1		1
2012-07-17					0
2012-07-18				1	1
2012-07-19	1	1	1	1	4
2012-07-20			1		1
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08				1	1
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16		1			1
2012-08-17					0
2012-08-18					0
2012-08-19	1				1
2012-08-20					0
2012-08-21		1			1
2012-08-22	1				1
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27			1		1
2012-08-28					0
2012-08-29			1		1
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11					0
2012-09-12					0
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16					0
2012-09-17					0
2012-09-18					0
2012-09-19					0
2012-09-20					0
2012-09-21					0
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10					0
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04				1	1
2012-12-05			1	8	9
2012-12-06		2			2
2012-12-07			1		1
2012-12-08	3	1			4
2012-12-09			1	1	2
2012-12-10				2	2
2012-12-11	4	5			9
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15	1				1
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19		1			1
2012-12-20		2			2
2012-12-21					0
2012-12-22			1		1
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26			2	1	3
2012-12-27					0
2012-12-28					0
2012-12-29				1	1
2012-12-30					0
2012-12-31					0

Poaceae

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01	34	54	55	20	163
2011-07-02	5	7	5	8	25
2011-07-03	21	10	24	16	71
2011-07-04	5	10	40	20	75
2011-07-05	11	24	51	36	122
2011-07-06	84	89	110	69	352
2011-07-07	52	96	47	35	230
2011-07-08	53	55	32	18	158
2011-07-09	20	40	24	38	122
2011-07-10	62	24	20	64	170
2011-07-11	38	8	24	21	91
2011-07-12	5	12	14	22	53
2011-07-13	26	34	29	31	120
2011-07-14	28	18	17	13	76
2011-07-15	5	9	5	31	50
2011-07-16	30	22	29	25	106
2011-07-17	12	25	33	45	115
2011-07-18	6	2	6	1	15
2011-07-19	3	2	12	14	31
2011-07-20	16	23	12	14	65
2011-07-21	2	5	13	2	22
2011-07-22	3	17	5	2	27
2011-07-23	4	3	2		9
2011-07-24	5	6	2	3	16
2011-07-25	2	3	3	3	11
2011-07-26	1	5	6	2	14
2011-07-27	2	6	11	1	20
2011-07-28	2	8	1	3	14
2011-07-29	5	2	6	6	19
2011-07-30	4	13	9	8	34
2011-07-31		4	2	2	8

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01	2	1	3	2	8
2011-08-02	3	1	4	10	18
2011-08-03	14	9	45	23	91
2011-08-04	16	8	11	11	46
2011-08-05	1	5		12	18
2011-08-06	4	9	8	12	33
2011-08-07	5	10	14		29
2011-08-08		3		5	8
2011-08-09	7	3	3	6	19
2011-08-10	3	7	12	2	24
2011-08-11	1	10	19	6	36
2011-08-12	4	8	8	12	32
2011-08-13	17	8	3	5	33
2011-08-14	7	7	5	14	33
2011-08-15	19	4	5	1	29
2011-08-16	2	4	1	4	11
2011-08-17	3	1	8	16	28
2011-08-18	5	7	20	20	52
2011-08-19	10	24	13	11	58
2011-08-20	7	3	8	7	25
2011-08-21	6	11	17	15	49
2011-08-22	16	8	11	5	40
2011-08-23	11	8	27	11	57
2011-08-24	5	9	12	12	38
2011-08-25	20	15	12	10	57
2011-08-26	9	29	63	24	125
2011-08-27	31	55	56	4	146
2011-08-28	2	2	3	4	11
2011-08-29	2	1	11	3	17
2011-08-30	3	6	14	1	24
2011-08-31	4	6	42	37	89

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	19	15	36	12	82
2011-09-02	5	2	8	8	23
2011-09-03	3	7	48	57	115
2011-09-04	25	118	53	11	207
2011-09-05	15	6	24	8	53
2011-09-06	1	3	2	6	12
2011-09-07	3	6	22	17	48
2011-09-08	4	6	5	2	17
2011-09-09			6	2	8
2011-09-10	1	2	15	19	37
2011-09-11	9	7	7	16	39
2011-09-12	19	8	3	8	38
2011-09-13	4	7	13	9	33
2011-09-14	2	3			5
2011-09-15	2	3	2	4	11
2011-09-16	1	3	8	4	16
2011-09-17	2	6	3	3	14
2011-09-18	17	14	10	5	46
2011-09-19			2	1	3
2011-09-20	1				1
2011-09-21	1		6	5	12
2011-09-22			1	3	4
2011-09-23	1	2	1	1	5
2011-09-24	1	1		6	8
2011-09-25	2	1	7	7	17
2011-09-26	1		2		3
2011-09-27	1		1	2	4
2011-09-28	2				2
2011-09-29			1	3	4
2011-09-30	2	2	2		6

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01			1		1
2011-10-02		2	2		4
2011-10-03	2	3	1	2	8
2011-10-04	1	1	1	2	5
2011-10-05	1	5		1	7
2011-10-06					0
2011-10-07	2				2
2011-10-08		1			1
2011-10-09					0
2011-10-10	2				2
2011-10-11				2	2
2011-10-12	3	2			5
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16		2			2
2011-10-17			1	2	3
2011-10-18				2	2
2011-10-19			1		1
2011-10-20					0
2011-10-21		1		1	2
2011-10-22			6		6
2011-10-23					0
2011-10-24			1		1
2011-10-25				2	2
2011-10-26					0
2011-10-27				1	1
2011-10-28		1		2	3
2011-10-29	2		1		3
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04			1	2	3
2011-11-05			2		2
2011-11-06			3		3
2011-11-07				1	1
2011-11-08		2			2
2011-11-09					0
2011-11-10			2		2
2011-11-11			3		3
2011-11-12		2			2
2011-11-13		1	1		2
2011-11-14				1	1
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24			1	2	3
2011-11-25					0
2011-11-26				1	1
2011-11-27					0
2011-11-28					0
2011-11-29			1		1
2011-11-30			1		1

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02	1				1
2011-12-03					0
2011-12-04					0
2011-12-05		1			1
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12		1			1
2011-12-13			1		1
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01	18	39	40	28	125
2012-07-02	22	32	23	20	97
2012-07-03	45	49	77	74	245
2012-07-04	175	173	7	6	361
2012-07-05	1	7	12	4	24
2012-07-06	11	13	11	11	46
2012-07-07	16	10	2	3	31
2012-07-08	12	11	10	5	38
2012-07-09	26	28	13	9	76
2012-07-10	10	40	20	42	112
2012-07-11	37	20	22	6	85
2012-07-12	30	56	19	21	126
2012-07-13	7	16	6	3	32
2012-07-14	8	7	3	7	25
2012-07-15		4	1		5
2012-07-16		2	2	11	15
2012-07-17	20	16	11	7	54
2012-07-18	10	31	45	83	169
2012-07-19	43	62	40	9	154
2012-07-20	2	1	4	6	13
2012-07-21		4	2		6
2012-07-22	1	2	4	4	11
2012-07-23	24	16	9	13	62
2012-07-24	4	9	3	7	23
2012-07-25	3	4	8	10	25
2012-07-26	5	5	4	3	17
2012-07-27	1	1	2		4
2012-07-28	1	1		1	3
2012-07-29	2	6	3	1	12
2012-07-30	2	4	3	1	10
2012-07-31	3	6	3	2	14

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01	1	1	6	4	12
2012-08-02	6	4	4	6	20
2012-08-03	5	2	3	3	13
2012-08-04	4	1	3	1	9
2012-08-05	2	3		5	10
2012-08-06	1	3	2	8	14
2012-08-07	4	5	3	11	23
2012-08-08	5	5	25	7	42
2012-08-09	18	7	6	2	33
2012-08-10	2	4	6	5	17
2012-08-11	8	3		1	12
2012-08-12	2	4	9	14	29
2012-08-13	15	11	11	22	59
2012-08-14	27	11	8	23	69
2012-08-15	15	18	7	5	45
2012-08-16	3	3	25	15	46
2012-08-17	3	3	5	8	19
2012-08-18	6	3	6	5	20
2012-08-19	2	5	4	4	15
2012-08-20	3	7	3	2	15
2012-08-21	17	19	8	6	50
2012-08-22	16	15	2	3	36
2012-08-23			3		3
2012-08-24		1	2	1	4
2012-08-25	1	1		2	4
2012-08-26	2			2	4
2012-08-27		3	4	4	11
2012-08-28	2	3	1	3	9
2012-08-29	4	8	4	11	27
2012-08-30	19	15	24	7	65
2012-08-31	17	14	8	16	55

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	20	33	3	1	57
2012-09-02	1		1	1	3
2012-09-03		1	2	16	19
2012-09-04	16	54	11	4	85
2012-09-05	8	4	2	27	41
2012-09-06	5	42	6	5	58
2012-09-07	20	93	48	20	181
2012-09-08	38	34	15	8	95
2012-09-09	7	4	7	6	24
2012-09-10	10	6	4	2	22
2012-09-11	8	8	17	8	41
2012-09-12	15	5	5	1	26
2012-09-13	8	7	2	1	18
2012-09-14	8	14	12	4	38
2012-09-15	8	3	2	2	15
2012-09-16		4	5	1	10
2012-09-17	1	5	1		7
2012-09-18	1				1
2012-09-19	1	1	2		4
2012-09-20	4	5	5	1	15
2012-09-21	2	10			12
2012-09-22	4	2		1	7
2012-09-23	1	6	9	7	23
2012-09-24		7	2		9
2012-09-25	1	3	2	1	7
2012-09-26	3		2	1	6
2012-09-27	1	1		2	4
2012-09-28	1	3		1	5
2012-09-29			2	1	3
2012-09-30			1		1

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
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2012-10-03	2	4			6
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2012-10-07	1	1	2		4
2012-10-08		1		4	5
2012-10-09	2	1	1	1	5
2012-10-10	2		1		3
2012-10-11					0
2012-10-12		2	2	1	5
2012-10-13		1			1
2012-10-14					0
2012-10-15	1	3			4
2012-10-16		1		1	2
2012-10-17					0
2012-10-18					0
2012-10-19	2				2
2012-10-20				1	1
2012-10-21		2		1	3
2012-10-22		1	2		3
2012-10-23	1			1	2
2012-10-24	1	1	1		3
2012-10-25		1			1
2012-10-26	2			11	13
2012-10-27	12	1	1	3	17
2012-10-28		1	1		2
2012-10-29					0
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2012-10-31			1		1

2012 November

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2012-11-05					0
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2012-11-07					0
2012-11-08	1				1
2012-11-09					0
2012-11-10	2				2
2012-11-11		1		1	2
2012-11-12					0
2012-11-13		2	1		3
2012-11-14		1			1
2012-11-15					0
2012-11-16					0
2012-11-17					0
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2012-11-19					0
2012-11-20		2			2
2012-11-21				1	1
2012-11-22					0
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2012 Dezember

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2012-12-07					0
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2012-12-09					0
2012-12-10				1	1
2012-12-11	1				1
2012-12-12				2	2
2012-12-13					0
2012-12-14			1		1
2012-12-15					0
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2012-12-18					0
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2012-12-21		1			1
2012-12-22					0
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2012-12-24	1				1
2012-12-25	1	1			2
2012-12-26					0
2012-12-27					0
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2012-12-29					0
2012-12-30		1			1
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2011 September

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2011 November

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2012 August

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2012 September

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2012 November

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2011 August

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2011 September

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2011 November

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2011 Dezember

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2012 Juli

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2012 August

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2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11					0
2012-09-12					0
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16					0
2012-09-17					0
2012-09-18					0
2012-09-19					0
2012-09-20					0
2012-09-21					0
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10					0
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

Rubiaceae

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01		2			2
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06		1	2	1	4
2011-07-07				1	1
2011-07-08					0
2011-07-09	1	2	2		5
2011-07-10	2				2
2011-07-11					0
2011-07-12					0
2011-07-13		1			1
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03					0
2011-08-04					0
2011-08-05					0
2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19			2	1	3
2011-08-20					0
2011-08-21					0
2011-08-22				1	1
2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26					0
2011-08-27					0
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01			1		1
2011-09-02					0
2011-09-03					0
2011-09-04		1			1
2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12					0
2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17					0
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
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2011-10-05					0
2011-10-06				1	1
2011-10-07					0
2011-10-08					0
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14	2				2
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03	3				3
2012-07-04					0
2012-07-05		1			1
2012-07-06					0
2012-07-07					0
2012-07-08		1			1
2012-07-09				1	1
2012-07-10					0
2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01			1		1
2012-08-02				1	1
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16					0
2012-08-17					0
2012-08-18					0
2012-08-19					0
2012-08-20					0
2012-08-21			2		2
2012-08-22					0
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11					0
2012-09-12					0
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16					0
2012-09-17					0
2012-09-18					0
2012-09-19					0
2012-09-20					0
2012-09-21					0
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10		3			3
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

Spores

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-08	0	0	0	0	0
2011-10-09	0	0	0	0	0
2011-10-10	0		0	0	0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-17	0	0	0	0	0
2011-11-20	0	0	0	0	0
2011-11-21	0	0	0	0	0
2011-11-22	0	0	0	0	0
2011-11-23	0	0	0	0	0
2011-11-24	0	0	0	0	0
2011-11-25	0	0	0	0	0
2011-11-26	0	0	0	0	0
2011-11-27	0	0	0	0	0
2011-11-28	0	0	0	0	0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-08					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-02			0	0	0
2012-09-18				0	0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-11	0	0	0	0	0
2012-10-26	0	0	0	0	0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-02	0	0			0
2012-11-05		0		0	0
2012-11-06	0	0			0
2012-11-09	0	0	0		0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-03	0	0	0	0	0
2012-12-12	0	0	0	0	0
2012-12-14	0	0	0	0	0
2012-12-15	0	0	0	0	0
2012-12-20	0	0	0	0	0
2012-12-21	0	0	0	0	0
2012-12-23	0	0	0	0	0
2012-12-27	0	0	0	0	0

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	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01	6	3	1	2	12
2011-07-02		2			2
2011-07-03		1	1	1	3
2011-07-04	1		2		3
2011-07-05					0
2011-07-06	1	2		1	4
2011-07-07			2		2
2011-07-08	2				2
2011-07-09			1		1
2011-07-10				1	1
2011-07-11					0
2011-07-12	1	1			2
2011-07-13		3		1	4
2011-07-14	1	1	2		4
2011-07-15		1			1
2011-07-16				1	1
2011-07-17			3	1	4
2011-07-18					0
2011-07-19	1				1
2011-07-20			3	1	4
2011-07-21		1			1
2011-07-22			1		1
2011-07-23	1				1
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03					0
2011-08-04					0
2011-08-05					0
2011-08-06			1		1
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15	2				2
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25				1	1
2011-08-26		1	1		2
2011-08-27					0
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31				1	1

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	1				1
2011-09-02					0
2011-09-03					0
2011-09-04			2		2
2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12					0
2011-09-13				1	1
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17				1	1
2011-09-18			1		1
2011-09-19		1		1	2
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27			1		1
2011-09-28					0
2011-09-29					0
2011-09-30		1			1

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04	1				1
2011-10-05					0
2011-10-06					0
2011-10-07		1			1
2011-10-08		1			1
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25				1	1
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05				1	1
2011-11-06	1				1
2011-11-07		1		1	2
2011-11-08					0
2011-11-09			2		2
2011-11-10		1		1	2
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16			1		1
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29			1		1
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01	2	2	4	2	10
2012-07-02		4			4
2012-07-03		2	5	2	9
2012-07-04	5	5			10
2012-07-05	1		1		2
2012-07-06			1		1
2012-07-07					0
2012-07-08		2	1	2	5
2012-07-09	5	2	5	3	15
2012-07-10	6	6		2	14
2012-07-11	1	2			3
2012-07-12	2	5			7
2012-07-13	1		3		4
2012-07-14					0
2012-07-15		1			1
2012-07-16					0
2012-07-17	1	1			2
2012-07-18		1	1		2
2012-07-19			1	1	2
2012-07-20	1				1
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27			1		1
2012-07-28					0
2012-07-29					0
2012-07-30	1				1
2012-07-31			1		1

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01	1	1	1		3
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06		1		1	2
2012-08-07					0
2012-08-08					0
2012-08-09			1		1
2012-08-10					0
2012-08-11					0
2012-08-12		1			1
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16	1			1	2
2012-08-17					0
2012-08-18					0
2012-08-19		1			1
2012-08-20				1	1
2012-08-21	1				1
2012-08-22					0
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29		1	1		2
2012-08-30	1	1			2
2012-08-31			1		1

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01		1			1
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05		1	1		2
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11	1				1
2012-09-12	1			1	2
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16					0
2012-09-17					0
2012-09-18					0
2012-09-19					0
2012-09-20					0
2012-09-21					0
2012-09-22			1		1
2012-09-23				1	1
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27	1				1
2012-09-28			1		1
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02			1		1
2012-10-03	2	1			3
2012-10-04					0
2012-10-05	1				1
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10					0
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14			1		1
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20		1			1
2012-10-21					0
2012-10-22					0
2012-10-23	1				1
2012-10-24					0
2012-10-25					0
2012-10-26	1				1
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01			1		1
2012-11-02					0
2012-11-03					0
2012-11-04			1		1
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10	1				1
2012-11-11		1			1
2012-11-12					0
2012-11-13					0
2012-11-14		1			1
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22					0
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01		2			2
2012-12-02		1			1
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08	1				1
2012-12-09					0
2012-12-10				1	1
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18		1			1
2012-12-19					0
2012-12-20					0
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25	1				1
2012-12-26				1	1
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

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2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01					0
2011-07-02					0
2011-07-03					0
2011-07-04					0
2011-07-05					0
2011-07-06					0
2011-07-07					0
2011-07-08					0
2011-07-09					0
2011-07-10					0
2011-07-11					0
2011-07-12					0
2011-07-13					0
2011-07-14					0
2011-07-15					0
2011-07-16					0
2011-07-17					0
2011-07-18					0
2011-07-19					0
2011-07-20					0
2011-07-21					0
2011-07-22					0
2011-07-23					0
2011-07-24					0
2011-07-25					0
2011-07-26					0
2011-07-27					0
2011-07-28					0
2011-07-29					0
2011-07-30					0
2011-07-31					0

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01					0
2011-08-02					0
2011-08-03					0
2011-08-04					0
2011-08-05					0
2011-08-06					0
2011-08-07					0
2011-08-08					0
2011-08-09					0
2011-08-10					0
2011-08-11					0
2011-08-12					0
2011-08-13					0
2011-08-14					0
2011-08-15					0
2011-08-16					0
2011-08-17					0
2011-08-18					0
2011-08-19					0
2011-08-20					0
2011-08-21					0
2011-08-22					0
2011-08-23					0
2011-08-24					0
2011-08-25					0
2011-08-26					0
2011-08-27					0
2011-08-28					0
2011-08-29					0
2011-08-30					0
2011-08-31					0

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01					0
2011-09-02					0
2011-09-03					0
2011-09-04					0
2011-09-05					0
2011-09-06					0
2011-09-07					0
2011-09-08					0
2011-09-09					0
2011-09-10					0
2011-09-11					0
2011-09-12					0
2011-09-13					0
2011-09-14					0
2011-09-15					0
2011-09-16					0
2011-09-17					0
2011-09-18					0
2011-09-19					0
2011-09-20					0
2011-09-21					0
2011-09-22					0
2011-09-23					0
2011-09-24					0
2011-09-25					0
2011-09-26					0
2011-09-27					0
2011-09-28					0
2011-09-29					0
2011-09-30					0

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01					0
2011-10-02					0
2011-10-03					0
2011-10-04					0
2011-10-05					0
2011-10-06					0
2011-10-07					0
2011-10-08					0
2011-10-09					0
2011-10-10					0
2011-10-11					0
2011-10-12					0
2011-10-13					0
2011-10-14					0
2011-10-15					0
2011-10-16					0
2011-10-17					0
2011-10-18					0
2011-10-19					0
2011-10-20					0
2011-10-21					0
2011-10-22					0
2011-10-23					0
2011-10-24					0
2011-10-25					0
2011-10-26					0
2011-10-27					0
2011-10-28					0
2011-10-29					0
2011-10-30					0
2011-10-31					0

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04					0
2011-11-05					0
2011-11-06					0
2011-11-07					0
2011-11-08					0
2011-11-09					0
2011-11-10					0
2011-11-11					0
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28					0
2011-11-29					0
2011-11-30					0

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04					0
2011-12-05					0
2011-12-06					0
2011-12-07					0
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01					0
2012-07-02					0
2012-07-03					0
2012-07-04					0
2012-07-05					0
2012-07-06					0
2012-07-07					0
2012-07-08					0
2012-07-09					0
2012-07-10					0
2012-07-11					0
2012-07-12					0
2012-07-13					0
2012-07-14					0
2012-07-15					0
2012-07-16					0
2012-07-17					0
2012-07-18					0
2012-07-19					0
2012-07-20					0
2012-07-21					0
2012-07-22					0
2012-07-23					0
2012-07-24					0
2012-07-25					0
2012-07-26					0
2012-07-27					0
2012-07-28					0
2012-07-29					0
2012-07-30					0
2012-07-31					0

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01					0
2012-08-02					0
2012-08-03					0
2012-08-04					0
2012-08-05					0
2012-08-06					0
2012-08-07					0
2012-08-08					0
2012-08-09					0
2012-08-10					0
2012-08-11					0
2012-08-12					0
2012-08-13					0
2012-08-14					0
2012-08-15					0
2012-08-16					0
2012-08-17					0
2012-08-18					0
2012-08-19					0
2012-08-20					0
2012-08-21					0
2012-08-22					0
2012-08-23					0
2012-08-24					0
2012-08-25					0
2012-08-26					0
2012-08-27					0
2012-08-28					0
2012-08-29					0
2012-08-30					0
2012-08-31					0

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01					0
2012-09-02					0
2012-09-03					0
2012-09-04					0
2012-09-05					0
2012-09-06					0
2012-09-07					0
2012-09-08					0
2012-09-09					0
2012-09-10					0
2012-09-11					0
2012-09-12					0
2012-09-13					0
2012-09-14					0
2012-09-15					0
2012-09-16					0
2012-09-17					0
2012-09-18					0
2012-09-19					0
2012-09-20					0
2012-09-21					0
2012-09-22					0
2012-09-23					0
2012-09-24					0
2012-09-25					0
2012-09-26					0
2012-09-27					0
2012-09-28					0
2012-09-29					0
2012-09-30					0

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01					0
2012-10-02					0
2012-10-03					0
2012-10-04					0
2012-10-05					0
2012-10-06					0
2012-10-07					0
2012-10-08					0
2012-10-09					0
2012-10-10					0
2012-10-11					0
2012-10-12					0
2012-10-13					0
2012-10-14					0
2012-10-15					0
2012-10-16					0
2012-10-17					0
2012-10-18					0
2012-10-19					0
2012-10-20					0
2012-10-21					0
2012-10-22					0
2012-10-23					0
2012-10-24					0
2012-10-25					0
2012-10-26					0
2012-10-27					0
2012-10-28					0
2012-10-29					0
2012-10-30					0
2012-10-31					0

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02					0
2012-11-03					0
2012-11-04					0
2012-11-05					0
2012-11-06					0
2012-11-07					0
2012-11-08					0
2012-11-09					0
2012-11-10					0
2012-11-11					0
2012-11-12					0
2012-11-13					0
2012-11-14					0
2012-11-15					0
2012-11-16					0
2012-11-17					0
2012-11-18					0
2012-11-19					0
2012-11-20					0
2012-11-21					0
2012-11-22			1		1
2012-11-23					0
2012-11-24					0
2012-11-25					0
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29					0
2012-11-30					0

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02					0
2012-12-03					0
2012-12-04					0
2012-12-05					0
2012-12-06					0
2012-12-07					0
2012-12-08					0
2012-12-09					0
2012-12-10					0
2012-12-11					0
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16					0
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20			1		1
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24					0
2012-12-25					0
2012-12-26					0
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0

Unidentified

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01	13	23	22	8	66
2011-07-02	1	7	6	5	19
2011-07-03	4	9	22	17	52
2011-07-04	6	5	14	6	31
2011-07-05	8	17	19	10	54
2011-07-06	3	18	19	5	45
2011-07-07	10	33	33	33	109
2011-07-08	5	13	9	13	40
2011-07-09	4	10	11	14	39
2011-07-10	23	2	16	17	58
2011-07-11	14	22	15	13	64
2011-07-12	9	14	11	15	49
2011-07-13	20	53	50	24	147
2011-07-14	53	52	30	19	154
2011-07-15	10	19	30	10	69
2011-07-16	20	30	49	23	122
2011-07-17	17	102	146	151	416
2011-07-18	24	19	39	5	87
2011-07-19	10	42	66	15	133
2011-07-20	28	184	111	78	401
2011-07-21	31	15	27	13	86
2011-07-22	16	73	27	4	120
2011-07-23	6	24	22	33	85
2011-07-24	12	33	33	12	90
2011-07-25	3	10	41	11	65
2011-07-26	3	22	23	9	57
2011-07-27	5	40	64	65	174
2011-07-28	14	50	11	2	77
2011-07-29	5	15	21	19	60
2011-07-30	5	17	26	14	62
2011-07-31	13	9	17	6	45

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01		4	42	6	52
2011-08-02	5	16	15	5	41
2011-08-03	5	14	16	7	42
2011-08-04	7	8	9	6	30
2011-08-05	4	16	15	1	36
2011-08-06	14	24	28	12	78
2011-08-07	1	23	15		39
2011-08-08			1	2	3
2011-08-09	14	7	8		29
2011-08-10	3	3	4	5	15
2011-08-11	6	13	17	2	38
2011-08-12	7	14	11	4	36
2011-08-13	5	5	3	4	17
2011-08-14	2	16	8	9	35
2011-08-15	7	19	4	1	31
2011-08-16	2	6	6	4	18
2011-08-17	1	5	22	13	41
2011-08-18	14	19	32	18	83
2011-08-19	11	22	26	10	69
2011-08-20		10	17	12	39
2011-08-21	17	23	22	11	73
2011-08-22	7	11	15	8	41
2011-08-23	3	14	18	16	51
2011-08-24	10	6	13	14	43
2011-08-25	14	12	12	6	44
2011-08-26	11	18	31	14	74
2011-08-27	10	27	55	8	100
2011-08-28		2	2	9	13
2011-08-29	3	3	3	7	16
2011-08-30	6	4	9	4	23
2011-08-31	5	7	6	10	28

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	10	15	17	15	57
2011-09-02	2	4	6	8	20
2011-09-03	2	9	15	7	33
2011-09-04	4	31	8	10	53
2011-09-05	11	12	13	12	48
2011-09-06	6	5	3	7	21
2011-09-07	9	3	16	18	46
2011-09-08	3	6	10	5	24
2011-09-09			3	1	4
2011-09-10	1	3	11	3	18
2011-09-11	9	5	11	9	34
2011-09-12	11	8	5	6	30
2011-09-13	6	8	4	6	24
2011-09-14	4	7	3	3	17
2011-09-15	4	12	5	8	29
2011-09-16	6	4	13	14	37
2011-09-17	20	18	17	6	61
2011-09-18	15	27	9	3	54
2011-09-19	1	2		1	4
2011-09-20	3	3		4	10
2011-09-21	2	1	11	5	19
2011-09-22		1	2	5	8
2011-09-23	2	5	4	9	20
2011-09-24	3	6			9
2011-09-25	11	11	32	9	63
2011-09-26	4	3	4	5	16
2011-09-27	1	4	12	7	24
2011-09-28	2	3			5
2011-09-29			11	3	14
2011-09-30		3	7	4	14

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01	7	11	6	4	28
2011-10-02	5	4	12	1	22
2011-10-03	11	6	12	8	37
2011-10-04	3	4	10	6	23
2011-10-05	7	9	9	5	30
2011-10-06	3	7	21	5	36
2011-10-07	15	9	2	2	28
2011-10-08		3	5	2	10
2011-10-09	2	1		3	6
2011-10-10	7	2	2		11
2011-10-11	4	6	3	7	20
2011-10-12	6	2	1	1	10
2011-10-13			5		5
2011-10-14			1	1	2
2011-10-15			2		2
2011-10-16	3	3	6	7	19
2011-10-17	2	1	2	2	7
2011-10-18		3	7	3	13
2011-10-19	3	8	8	3	22
2011-10-20				1	1
2011-10-21			1		1
2011-10-22		2	2	1	5
2011-10-23	3		2		5
2011-10-24			1		1
2011-10-25		2	2	4	8
2011-10-26		2	9	3	14
2011-10-27	15	2	2	3	22
2011-10-28	4	3	4	3	14
2011-10-29			1	1	2
2011-10-30	1		4	5	10
2011-10-31	1	2	4	2	9

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01	1				1
2011-11-02			3	1	4
2011-11-03	1	1			2
2011-11-04			1	3	4
2011-11-05	1	3	1	3	8
2011-11-06	2	2	4	1	9
2011-11-07	4	2	6		12
2011-11-08	4	2	3		9
2011-11-09		1	3	3	7
2011-11-10	2	2	1		5
2011-11-11	1	4	5	3	13
2011-11-12		1	1	1	3
2011-11-13	1	2	2		5
2011-11-14			4	1	5
2011-11-15		2	1		3
2011-11-16		2	2		4
2011-11-17		1			1
2011-11-18					0
2011-11-19	1		2		3
2011-11-20					0
2011-11-21					0
2011-11-22				1	1
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26			1		1
2011-11-27					0
2011-11-28	1	1	1		3
2011-11-29	1	1	2		4
2011-11-30			1	1	2

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01		2		2	4
2011-12-02		1	2		3
2011-12-03		1			1
2011-12-04	1	1	1	1	4
2011-12-05	3	4	1		8
2011-12-06	1	4			5
2011-12-07	1	1	1		3
2011-12-08	1	11	7		19
2011-12-09		1			1
2011-12-10			1		1
2011-12-11	1				1
2011-12-12	2				2
2011-12-13		1	1		2
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01	10	21	35	24	90
2012-07-02	7	15	13	8	43
2012-07-03	5	12	7	3	27
2012-07-04	9	13	5	2	29
2012-07-05	3	12	6	1	22
2012-07-06	2	3	5	6	16
2012-07-07	5	8	3	2	18
2012-07-08	6	11	9	8	34
2012-07-09	144	74	11	4	233
2012-07-10	9	18	11	16	54
2012-07-11	32	10	42	2	86
2012-07-12	20	39	19	3	81
2012-07-13	6	8	12	9	35
2012-07-14	5	14	2	3	24
2012-07-15		11			11
2012-07-16	1	2	2	3	8
2012-07-17	5	17	26	7	55
2012-07-18	11	29	76	12	128
2012-07-19	9	42	43	16	110
2012-07-20	4	5	9	3	21
2012-07-21	1	4	10		15
2012-07-22		9	9	5	23
2012-07-23	30	41	17	11	99
2012-07-24	6	21	18	35	80
2012-07-25	2	7	35	2	46
2012-07-26	9	10	4		23
2012-07-27	2	6	3	2	13
2012-07-28		1	2	1	4
2012-07-29	3	1	11	4	19
2012-07-30	5	9	10	1	25
2012-07-31	9	103	6	1	119

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01	3	2	15	1	21
2012-08-02	2	3	7	2	14
2012-08-03	4	3	7	2	16
2012-08-04	2	7	2	10	21
2012-08-05	5	5	1	3	14
2012-08-06	3	4	4	1	12
2012-08-07	5	80	43	14	142
2012-08-08	10	70	9	11	100
2012-08-09	15	8	19	4	46
2012-08-10	11	27	19	8	65
2012-08-11	14	31	14	5	64
2012-08-12	3	34	17	18	72
2012-08-13	28	29	32	19	108
2012-08-14	11	18	41	10	80
2012-08-15	10	20	15	21	66
2012-08-16	9	10	25	8	52
2012-08-17	10	19	10	13	52
2012-08-18	15	19	12	29	75
2012-08-19	19	22	16	7	64
2012-08-20	8	22	5	6	41
2012-08-21	20	56	9	18	103
2012-08-22	7	3	3		13
2012-08-23	1		1	1	3
2012-08-24	2	4	2	1	9
2012-08-25	4	2	1	1	8
2012-08-26					0
2012-08-27		1	11	3	15
2012-08-28	1	4	2	3	10
2012-08-29	5	7	7	3	22
2012-08-30	3	11	5	2	21
2012-08-31	3	3	6	5	17

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	22	40	7	3	72
2012-09-02				3	3
2012-09-03	1	1	14	20	36
2012-09-04	19	27	29	17	92
2012-09-05	12	9	4	10	35
2012-09-06	16	18	4	2	40
2012-09-07	9	22	17	16	64
2012-09-08	10	9	9	11	39
2012-09-09	8	11	3	3	25
2012-09-10	6	8	7	2	23
2012-09-11	11	26	14	9	60
2012-09-12	5	16	7	2	30
2012-09-13	4	14			18
2012-09-14	6	14	15	4	39
2012-09-15	4	4	3	2	13
2012-09-16	4	8	4	4	20
2012-09-17		2	3		5
2012-09-18	1	3	3		7
2012-09-19	3	3	11	1	18
2012-09-20	9	19	9	3	40
2012-09-21	11	11	4	7	33
2012-09-22	24	6	1		31
2012-09-23		4	4	8	16
2012-09-24	3	12	5	1	21
2012-09-25	6	5	9	1	21
2012-09-26	3	5	2	1	11
2012-09-27	7	1		4	12
2012-09-28	12	19	26	5	62
2012-09-29	3	2	2	2	9
2012-09-30	1	9	8	2	20

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01	6	6	4	8	24
2012-10-02		9	25	6	40
2012-10-03	9	16	2	1	28
2012-10-04	4	4	2	4	14
2012-10-05	1	2	4	4	11
2012-10-06	8	3	5	5	21
2012-10-07	2	8	5		15
2012-10-08	9	9	4	9	31
2012-10-09	9	11	3	1	24
2012-10-10	2	11	4		17
2012-10-11		4		1	5
2012-10-12	2	8	11	4	25
2012-10-13	5	6	4		15
2012-10-14	1	2	1		4
2012-10-15	5	7	5	3	20
2012-10-16	3	4	1	1	9
2012-10-17	3	4	3	1	11
2012-10-18	1	2	3		6
2012-10-19	1	2	1	1	5
2012-10-20	2	1	4	5	12
2012-10-21	2	2	3	3	10
2012-10-22	5	4	3	2	14
2012-10-23	5	3	2	3	13
2012-10-24		4	2	2	8
2012-10-25	1	2	5		8
2012-10-26	28	12	17	72	129
2012-10-27	58	14	17	47	136
2012-10-28	10	3	3		16
2012-10-29	5	4	1	1	11
2012-10-30	1	6		1	8
2012-10-31	2	2	39	4	47

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01		1	4	1	6
2012-11-02	3	3	1	9	16
2012-11-03			1	1	2
2012-11-04	1	1	4	2	8
2012-11-05	2	2	9	1	14
2012-11-06	1	1	5	5	12
2012-11-07	8	1			9
2012-11-08		3			3
2012-11-09		3		1	4
2012-11-10	2		5	4	11
2012-11-11	14	12	15	2	43
2012-11-12	4	1		2	7
2012-11-13		5			5
2012-11-14	4	11	1		16
2012-11-15	1				1
2012-11-16		1			1
2012-11-17					0
2012-11-18					0
2012-11-19	1		2		3
2012-11-20			1		1
2012-11-21	2	2	5		9
2012-11-22		1	1		2
2012-11-23	3		2		5
2012-11-24					0
2012-11-25	1		1	1	3
2012-11-26					0
2012-11-27		1	3		4
2012-11-28	2	1	2		5
2012-11-29		2	1		3
2012-11-30	1	2			3

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01	9	1		2	12
2012-12-02		1			1
2012-12-03	1	2	1		4
2012-12-04	9	8	1		18
2012-12-05	3	3	3	8	17
2012-12-06		9	3	1	13
2012-12-07		1	2	14	17
2012-12-08	10	7			17
2012-12-09	1		1	1	3
2012-12-10	6	1			7
2012-12-11	214	25			239
2012-12-12			1		1
2012-12-13			1		1
2012-12-14					0
2012-12-15	1				1
2012-12-16			4	1	5
2012-12-17	2	2	1		5
2012-12-18		4	1		5
2012-12-19	1	2	1		4
2012-12-20	5	11	13		29
2012-12-21		1			1
2012-12-22				1	1
2012-12-23			2		2
2012-12-24	2		1		3
2012-12-25	1	1			2
2012-12-26	1		4	15	20
2012-12-27	1				1
2012-12-28			1		1
2012-12-29		2	1	2	5
2012-12-30	1	2		3	6
2012-12-31		2	4	2	8

Urticaceae

2011 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-07-01	180	316	568	133	1.197
2011-07-02	29	67	98	118	312
2011-07-03	156	161	111	52	480
2011-07-04	41	129	469	355	994
2011-07-05	116	226	626	458	1.426
2011-07-06	586	550	997	319	2.452
2011-07-07	162	427	945	586	2.120
2011-07-08	360	306	721	495	1.882
2011-07-09	390	920	741	750	2.801
2011-07-10	407	277	762	743	2.189
2011-07-11	191	197	435	769	1.592
2011-07-12	347	212	418	452	1.429
2011-07-13	436	489	693	525	2.143
2011-07-14	355	183	458	251	1.247
2011-07-15	140	221	404	589	1.354
2011-07-16	375	616	581	451	2.023
2011-07-17	487	422	440	378	1.727
2011-07-18	51	31	156	242	480
2011-07-19	65	160	231	380	836
2011-07-20	146	151	158	78	533
2011-07-21	30	42	421	224	717
2011-07-22	59	206	87	96	448
2011-07-23	132	143	190	80	545
2011-07-24	86	106	103	33	328
2011-07-25	113	100	382	259	854
2011-07-26	302	151	371	367	1.191
2011-07-27	223	330	643	156	1.352
2011-07-28	265	476	77	14	832
2011-07-29	84	396	825	280	1.585
2011-07-30	70	236	577	175	1.058
2011-07-31	19	88	225	187	519

2011 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-08-01	77	91	667	588	1.423
2011-08-02	805	953	1.348	967	4.073
2011-08-03	534	431	1.527	1.427	3.919
2011-08-04	567	105	920	625	2.217
2011-08-05	163	648	1.359	1.293	3.463
2011-08-06	651	1.093	1.257	1.046	4.047
2011-08-07	394	762	529	29	1.714
2011-08-08	21	18	78	119	236
2011-08-09	180	595	283	83	1.141
2011-08-10	62	109	516	190	877
2011-08-11	159	491	473	356	1.479
2011-08-12	232	754	1.198	255	2.439
2011-08-13	119	287	432	397	1.235
2011-08-14	273	943	892	582	2.690
2011-08-15	263	674	313	44	1.294
2011-08-16	60	628	738	454	1.880
2011-08-17	285	335	1.117	1.437	3.174
2011-08-18	1.374	1.030	1.581	1.356	5.341
2011-08-19	699	456	711	319	2.185
2011-08-20	136	545	758	603	2.042
2011-08-21	610	881	1.388	1.525	4.404
2011-08-22	1.409	512	962	797	3.680
2011-08-23	801	648	762	450	2.661
2011-08-24	457	400	721	487	2.065
2011-08-25	535	304	548	411	1.798
2011-08-26	1.034	767	454	466	2.721
2011-08-27	450	478	349	49	1.326
2011-08-28	9	35	86	120	250
2011-08-29	61	96	190	136	483
2011-08-30	147	147	241	68	603
2011-08-31	145	228	218	319	910

2011 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-09-01	70	111	246	58	485
2011-09-02	24	22	144	54	244
2011-09-03	27	71	188	196	482
2011-09-04	96	266	242	188	792
2011-09-05	160	76	128	21	385
2011-09-06	30	69	119	33	251
2011-09-07	46	21	109	71	247
2011-09-08	25	47	74	37	183
2011-09-09	2	10	68	42	122
2011-09-10	33	55	214	152	454
2011-09-11	131	120	195	193	639
2011-09-12	95	46	75	57	273
2011-09-13	26	46	84	43	199
2011-09-14	51	34	11	10	106
2011-09-15	20	55	33	25	133
2011-09-16	9	45	46	23	123
2011-09-17	22	56	45	43	166
2011-09-18	55	67	36	10	168
2011-09-19	3	2	5	17	27
2011-09-20	6	1	3	3	13
2011-09-21	5	9	22	12	48
2011-09-22	1	1	13	11	26
2011-09-23	5	10	15	10	40
2011-09-24	4	20	9	9	42
2011-09-25	4	10	29	13	56
2011-09-26	12	5	15		32
2011-09-27		2	9	6	17
2011-09-28	1	5			6
2011-09-29			9		9
2011-09-30	2	1	6		9

2011 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-10-01		1	2	1	4
2011-10-02	2	6	7	2	17
2011-10-03	3	1	8	2	14
2011-10-04		2	4	3	9
2011-10-05	1	2	1		4
2011-10-06		3	3	1	7
2011-10-07	1				1
2011-10-08	1				1
2011-10-09			1		1
2011-10-10					0
2011-10-11	1	2	1	1	5
2011-10-12		1			1
2011-10-13					0
2011-10-14	1				1
2011-10-15					0
2011-10-16		2	3		5
2011-10-17		1	4	1	6
2011-10-18		2	1		3
2011-10-19	1				1
2011-10-20		2			2
2011-10-21			1		1
2011-10-22				1	1
2011-10-23		3			3
2011-10-24					0
2011-10-25				1	1
2011-10-26	1		2	1	4
2011-10-27		1	1		2
2011-10-28	1		1		2
2011-10-29				1	1
2011-10-30		2		1	3
2011-10-31	1		2	1	4

2011 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-11-01					0
2011-11-02					0
2011-11-03					0
2011-11-04			1		1
2011-11-05					0
2011-11-06					0
2011-11-07				2	2
2011-11-08		1	1		2
2011-11-09					0
2011-11-10				1	1
2011-11-11		1			1
2011-11-12					0
2011-11-13					0
2011-11-14					0
2011-11-15					0
2011-11-16					0
2011-11-17					0
2011-11-18					0
2011-11-19					0
2011-11-20					0
2011-11-21					0
2011-11-22					0
2011-11-23					0
2011-11-24					0
2011-11-25					0
2011-11-26					0
2011-11-27					0
2011-11-28				1	1
2011-11-29					0
2011-11-30			2		2

2011 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2011-12-01					0
2011-12-02					0
2011-12-03					0
2011-12-04			1		1
2011-12-05		1			1
2011-12-06					0
2011-12-07		1			1
2011-12-08					0
2011-12-09					0
2011-12-10					0
2011-12-11					0
2011-12-12					0
2011-12-13					0
2011-12-14					0

2012 Juli

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-07-01	119	200	311	155	785
2012-07-02	78	125	140	107	450
2012-07-03	156	268	317	256	997
2012-07-04	557	600	33	18	1.208
2012-07-05	22	103	181	260	566
2012-07-06	164	127	65	62	418
2012-07-07	118	114	42	89	363
2012-07-08	361	141	28	38	568
2012-07-09	229	155	102	27	513
2012-07-10	29	172	147	112	460
2012-07-11	169	157	250	135	711
2012-07-12	246	380	192	175	993
2012-07-13	179	174	77	65	495
2012-07-14	166	119	20	24	329
2012-07-15	11	80	18	10	119
2012-07-16	1	12	26	88	127
2012-07-17	170	189	70	207	636
2012-07-18	284	205	430	361	1.280
2012-07-19	148	126	272	52	598
2012-07-20	43	48	38	25	154
2012-07-21	7	12	87	53	159
2012-07-22	40	52	218	411	721
2012-07-23	424	335	251	386	1.396
2012-07-24	79	131	144	97	451
2012-07-25	22	21	309	91	443
2012-07-26	185	266	109	60	620
2012-07-27	162	130	162	80	534
2012-07-28	90	96	32	43	261
2012-07-29	98	202	275	184	759
2012-07-30	323	297	290	160	1.070
2012-07-31	151	498	101	61	811

2012 August

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-08-01	277	262	366	170	1.075
2012-08-02	181	216	117	64	578
2012-08-03	88	161	97	144	490
2012-08-04	131	223	103	95	552
2012-08-05	214	182	96	133	625
2012-08-06	180	158	125	164	627
2012-08-07	437	834	1.016	891	3.178
2012-08-08	824	843	759	407	2.833
2012-08-09	650	934	492	308	2.384
2012-08-10	550	586	224	340	1.700
2012-08-11	617	527	226	313	1.683
2012-08-12	255	247	571	1.137	2.210
2012-08-13	1.196	976	605	651	3.428
2012-08-14	866	1.150	1.014	789	3.819
2012-08-15	671	956	269	277	2.173
2012-08-16	323	505	799	427	2.054
2012-08-17	857	1.126	645	1.144	3.772
2012-08-18	1.311	1.663	777	485	4.236
2012-08-19	815	996	377	585	2.773
2012-08-20	603	818	222	167	1.810
2012-08-21	669	1.139	700	793	3.301
2012-08-22	1.040	1.102	19	14	2.175
2012-08-23	16	22	28	12	78
2012-08-24	24	31	22	15	92
2012-08-25	9	14	1	7	31
2012-08-26	57	29	16	14	116
2012-08-27	17	66	76	51	210
2012-08-28	175	121	82	123	501
2012-08-29	256	434	63	54	807
2012-08-30	69	134	98	56	357
2012-08-31	88	101	95	86	370

2012 September

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-09-01	102	184	64	17	367
2012-09-02	11	1			12
2012-09-03	1	3	11	69	84
2012-09-04	102	169	98	56	425
2012-09-05	43	113	7	25	188
2012-09-06	16	65	18	13	112
2012-09-07	30	98	50	69	247
2012-09-08	66	70	44	11	191
2012-09-09	35	63	27	28	153
2012-09-10	41	59	22	18	140
2012-09-11	46	101	40	54	241
2012-09-12	56	98	6	2	162
2012-09-13	6	20	8	2	36
2012-09-14	10	32	17	11	70
2012-09-15	9	22	4	3	38
2012-09-16	1	13	8	9	31
2012-09-17	7	8	8	13	36
2012-09-18	4	3	3		10
2012-09-19	15	15	1	1	32
2012-09-20	7	9	2		18
2012-09-21	3	11	5	9	28
2012-09-22	13	23	2		38
2012-09-23	2	13	16	11	42
2012-09-24	14	15	2	2	33
2012-09-25	3	7	5	11	26
2012-09-26	2	1	2	2	7
2012-09-27	2	4	7		13
2012-09-28	1	10	13	4	28
2012-09-29	3	7	2	4	16
2012-09-30	2	12	2	2	18

2012 Oktober

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-10-01	1	3	1	3	8
2012-10-02				4	4
2012-10-03		2			2
2012-10-04			1	2	3
2012-10-05					0
2012-10-06					0
2012-10-07		2			2
2012-10-08	1	4		2	7
2012-10-09	1	2			3
2012-10-10		2	1		3
2012-10-11					0
2012-10-12		2	3	1	6
2012-10-13	1	5			6
2012-10-14		2	1		3
2012-10-15	1	2			3
2012-10-16	1				1
2012-10-17		2	1		3
2012-10-18			1		1
2012-10-19	2	4		1	7
2012-10-20	1			3	4
2012-10-21	1	2	2		5
2012-10-22	1	2			3
2012-10-23		1		2	3
2012-10-24		3			3
2012-10-25					0
2012-10-26		1		3	4
2012-10-27	3	2	2	2	9
2012-10-28					0
2012-10-29	1	3			4
2012-10-30					0
2012-10-31			3		3

2012 November

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-11-01					0
2012-11-02				1	1
2012-11-03	1	2			3
2012-11-04	2	3			5
2012-11-05			2	1	3
2012-11-06	1			1	2
2012-11-07	1		1		2
2012-11-08		1			1
2012-11-09					0
2012-11-10		3	1	2	6
2012-11-11		2	2	1	5
2012-11-12		1		2	3
2012-11-13		1	1		2
2012-11-14					0
2012-11-15		3			3
2012-11-16					0
2012-11-17		1	1		2
2012-11-18					0
2012-11-19			1		1
2012-11-20		2			2
2012-11-21		1			1
2012-11-22			1		1
2012-11-23					0
2012-11-24					0
2012-11-25				1	1
2012-11-26					0
2012-11-27					0
2012-11-28					0
2012-11-29	1				1
2012-11-30		1			1

2012 Dezember

	00:00 - 06:00	06:00 - 12:00	12:00 -18:00	18:00 - 24:00	total
2012-12-01					0
2012-12-02		1			1
2012-12-03		1			1
2012-12-04					0
2012-12-05	1	1		2	4
2012-12-06			1		1
2012-12-07					0
2012-12-08	4		2		6
2012-12-09				1	1
2012-12-10	1			1	2
2012-12-11		3			3
2012-12-12					0
2012-12-13					0
2012-12-14					0
2012-12-15					0
2012-12-16			1		1
2012-12-17					0
2012-12-18					0
2012-12-19					0
2012-12-20			1	1	2
2012-12-21					0
2012-12-22					0
2012-12-23					0
2012-12-24	1				1
2012-12-25					0
2012-12-26			2	4	6
2012-12-27					0
2012-12-28					0
2012-12-29					0
2012-12-30					0
2012-12-31					0