English translation

of the texts in the permanent exhibition of the Natural History Museum of Thurgau

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Canton Thurgau in the past

Rocks contain information about the processes that were involved in shaping the landscape of Thurgau over millions of years. While there are no spectacular cliffs, fossiliferous or mineral deposits, it is all the more worthwhile to look at rocks and fossils, the windows to our primeval past.



1 How it all began

The Earth is approximately 4.5 billion years old. No traces have ever been found in Canton Thurgau of its earliest period. However, the appearance of the landscape, evidence pointing to volcanic eruptions and mountain folding as well as fossilised remnants of plants and animals provide us with an insight into the eventful history of the Thurgau region dating back many millions of years.

2 Elephants and rhinos in the Thurgau region

From 17 million to around 12 million years ago, towards the end of the so-called molasse period, the Thurgau region was warm and humid like the subtropics are today. The landscape was characterised by a wide network of rivers and lakes. Forests of bay trees and redwoods were teeming with monkeys. Rhinos and prehistoric elephants roamed the landscape, turtles and crocodiles sunned themselves on the riverbanks. Fossilised remains from that time long since past can also be found in Canton Thurgau.

3 Icy periods

In the past 2.5 million years, there were several periods during which the Thurgau region was covered with large glaciers. The last of these Ice Ages occurred between 27,000 and 15,000 years ago. It is hard to imagine that the whole of present-day Canton Thurgau was once covered with a layer of ice up to 1000 metres in thickness. Only the tip of the Hörnli mountain would have been visible, like an island in a sea of ice. The Thurgau landscape still bears traces that attest to this icy period.

4

Icy times in Canton Thurgau 3.5 mins

5

Fossi, the fossil 2.05 mins

2nd floor Canton Thurgau in the past



Geological raised-relief map

Around 100 million years ago, Africa and Europe began to move towards each other. The Alps were formed when the tectonic plates collided and the ground was pushed upwards, in some areas to elevations of up to 10,000 metres! At the same time, the foreland, which is where Canton Thurgau is located, subsided. Debris and rubble associated with erosion during the post-tectonic phase of mountain building, were deposited in the resulting depression. This rubble, or molasse, now covers large parts of the canton. The relief map shows the extent of the molasse and other geological formations.

Geological raised-relief map of Canton Thurgau and its neighbouring regions

Scale 1:75 000, vertical exaggeration 2x, 10 metre equidistance modelled in c. 1970, restored and modified in 2006

2 The oldest Thurgovian

This stone was brought to the surface during geological boring from a depth of 2000 metres. It is 300 million years old. At that time, dinosaurs were spreading all over the Earth. The object is the oldest 'tangible' Thurgovian stone.

3 Fossilised

Remnants of plants and animals can survive the passage of time in a fossilised state. Most fossils are petrifactions, i.e. organic material that has gradually turned into 'stone'. As you will see, the process changes the weight of the object.

Display case, centre: Mastodon Mastodon augustidens Tusk fragment Müllheim TG, 1876 Display case, from left to right: Coral Thurgau, 1902 Mastodon Mastodon augustidens **Dorsal vertebra** Helsighausen TG Tortoise Chelonia sp. Shell fragment Kalchrain TG, 1917 Rhinoceros Rhinoceros sp. Molar Schlattingen TG, c. 1920 Dinotherium Molar Helsighausen TG

4 Mammoth & co.

Over the past 2.5 million years, the climate has alternated between Ice Ages and warm periods, during which the glaciers retreated back to the Alps for a few millennia. In the ice-free times, the animals and plants in the Thurgau region were the same as those which are native to northern Europe today. Past inhabitants of present-day Canton Thurgau included the European bison, the elk and the now extinct mammoth.

Display case, back: Woolly mammoth Elephas primigenius Tusk Schlatt/Paradies TG, 1905 Display case, right: European bison Bison bonasus Femur fragment Steckborn TG Display case, front: Woolly mammoth Elephas primigenius Molar Wagenhausen/Kaltenbach TG

5 Another type of fossil: mummies

Bodies are fossilised when temperatures are very low, or the air is very dry. Mummies are considered to be fossils and they can survive for several millennia. This fish mummy, which was left in a blackbird's nest by a stone marten, is a few decades old. Fish mummy in a blackbird's nest Deposited in the nest by a stone marten, Thurgau

6 Drilling for oil

People once drilled for oil even in Canton Thurgau. None of the deep drilling projects at Kreuzlingen (1962), Berlingen (1964) or Herdern (1982) brought to light any substantial oil reserves. They did, however, provide insight into the geological past of the canton.

Drill bit Used during deep drilling at Herdern TG, 1984

Oil from the Thurgau region

Petroleum and coal originated from organic deposits dating from the molasse period. In Canton Thurgau people also searched for these raw materials. No large deposits were found, however. This bottle contains a small sample of Thurgau crude oil.

Crude oil From deep drilling at Berlingen TG, 1964

8 Oysters, palm trees, elephants

An ocean covered the Thurgau region 20 million years ago. Sharks swam in the water and oyster beds could be found along the shoreline. Five million years later the landscape had completely changed, and the ocean had been replaced by an open riverscape. The climate was similar to that of the Canary Islands today. Fossils attest to a rich flora and fauna. It is hard to believe that palm trees grew on the riverbanks or that elephants and rhinos browsed the grasslands of what is now Canton Thurgau.

Display case, top: Mastodon Mastodon augustidens Tusk fragment Müllheim TG, 1876 Display case, from left to right: Palm tree Base of the trunk Frauenfeld TG, 1905 Crocodilian Crocodilia sp. Tooth Schlatt/Paradies TG, c. 1900 Oyster Ostrea gingensis Shells Schlatt/Paradies TG, 1942

O Art from the gravel pit

What looks like a piece of contemporary art is in fact a cellulose lacquer peel taken from the wall of a gravel pit. Towards the end of the last Ice Age, some 17,000 years ago, a meltwater lake developed in the area of the gravel pit. Sand and gravel deposits formed on the lakebed and water currents, bank erosion and sediment deposits left striking patterns in the sand.

'Sand image'

Cellulose lacquer peel taken from a pit wall Gravel pit at Ebnet near Willisdorf TG, 2002 Thurgau Geotope Inventory, no. 142

Moved by glaciers

The last great Ice Age began some 27,000 years ago and ended 15,000 years ago. The glaciers continued to flow from the Alps in the direction of the Swiss Plateau. Like a giant conveyor belt, they transported rocks from their original locations into the Thurgau region. It could take between 2,000 and 3,000 years for a rock to travel all that way. When the climate warmed up, the ice melted, and the rocks were left behind. Such 'glacial erratics' can be found in many places today.

Wall, from left to right: Shelly limestone Provenance: near Rorschach SG Findspot: Märstetten TG Julier granite

Provenance: Julier GR Findspot: Frauenfeld TG Verrucano rock Provenance: near Ilanz GR

Findspot: Frauenfeld TG

1 Scratched by glacial ice

Even the toughest rock bears the scars of its kilometrelong journey with the glacier over hundreds of years. The scratches are clearly visible on the rocks. The distinctly parallel scrapes indicate the direction of glacial flow.

Glacial erratics with scratches Frauenfeld TG, 1909

Insects

Insects have inhabited the Earth for almost 500 million years. More than two thirds of all organisms known worldwide are insects. They can be found in every environment except the oceans. So far, 1 million species have been described, and new ones are being discovered every day.



1 Orderly diverse

Some 30,000 insect species are known in Switzerland. Half of them can be found in Canton Thurgau. Insect family trees are used to keep track of the unbelievable variety. Who can place the pieces of the puzzle in the correct family tree?

2 Magnificent diversity

The variety of shapes and colours of our insects is endless. All species shown here are part of the museum's collections and are or were native to Canton Thurgau. The view through the magnifying glass reveals them in all their glory.

Olony-building insects

A special feature within the world of insects is the fact that some live in colonies. Each individual within a colony of insects has a clear task assigned to it. A colony of ants, for instance, consists of workers, soldiers and those who look after the nest. Only a small number are in charge of reproduction, and in many cases, the entire colony is descended from a single queen. Each colony lives in its own nest.

Ant nests in wood

Using their mandibles, some species of ant chew through rotten wood and even living trees to build their nests inside. They build a network of tunnels inside the tree, taking care, however, not to disrupt the flow of water or nutrients so that the tree can carry on living.

5

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6 Honeycomb, the honeybee's nest

Honeybees' nests consist of many hexagonal cells combined to form honeycombs. Wax secreted by the bees' glands is used as a building material. From 1 kg of wax, bees can make 80,000 cells and this takes approximately 66,000 hours.

6 Wasps' and hornets' nests

Wasps and hornets build their nests in decayed wood. They chew the wood and mix it with saliva. The resulting lightweight building material is similar to cardboard. Their nests have several storeys attached to each other by columns.

On the wall of the display case, from left to right: **Bee's Honeycomb** Saxon wasp Paper nest Frauenfeld TG, 1999 Hornet Paper nest Thurgau, 1990 On the floor of the display case, from left to right: **Carpenter** ant Nest in a wooden telephone pole Frauenfeld TG, 1945 Jet black ant Nest in the trunk of a spruce tree Pfyn TG, 1937 Hornet Nest in a beehive Frauenfeld TG, 1926 German wasp Paper nest Thurgau, 1990

Life in an ant colony

Ants can be found all over the world and in every habitat except water and high mountain ranges. A small number of species existed as early as 100 million years ago, at a time when dinosaurs still roamed the Earth. The ants' success story was based on their social structure; every one of the 14,000 species known today forms colonies.





1 Not all ants are the same

A total of 14,000 species worldwide have been identified so far. Switzerland has approximately 140 species. They are divided into four groups: *Myrmicinae*, *Formicinae*, *Dolichoderinae* and *Ponerinae*. The petiole, a segment between the anterior and the posterior part of the body, is an important distinguishing feature; it is marked in the models.

Display case, from left to right:

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Myrmicinae
70 species in Switzerland
Two-part petiole, no scale on the petiole
Formicinae
57 species in Switzerland
Upright, large, scale-like petiole
Dolichoderinae
5 species in Switzerland
Scale on petiole small or absent
Ponerinae
5 species in Switzerland
Constriction of the first and second segment.
Thick scale on petiole
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2 Ants up close

There are considerable differences in size between individual ant species. Use the magnifying glass to study some of the species in greater detail.

3 Graveyard

Over the course of approximately six years, the entire ant colony is replaced. In a large nest of 2 million animals, c. 1000 die every day. The 'corpses' are deposited in a graveyard far away from the nest.

4 Ant food

Ants mainly eat other insects, berries and seeds. These bowls contain a substitute made of agar (an extract of algae), eggs, honey, vitamins and mineral salts.

5 An arena of ants

This arena allows us to observe a colony of ants all year round as they go about their business. In spring and early summer, the males and young queens take to the air on a nuptial flight to begin new colonies.

6 The nest

Our ants are building a nest with a dome. The part of the nest that is below ground is at least the same size as the part that is visible above the surface. Ants like to build their nests on the edge of forests, in sunny spots that are sheltered from the wind.

Model of a red wood ant nest

The ants have built their nest around a tree stump, one part above ground, the other below. The dome or hill on top consists of plant material. The interior is divided into chambers where supplies are stored and offspring are reared.

8 Mortal danger

The larva of an antlion builds a funnel-shaped pit and sits at the bottom of it waiting for prey. If an ant falls into the funnel, the larva showers it with loose earth until it loses its foothold and slips into the antlion's mouth.

- Cocoon
- Antlion at the bottom of its pit
- 3 Antlion

2

- 4 Empty cocoon, cut open
- 5 Cocoon with empty pupa
- 6 Adult antlion
- 7 Remains of prey

9

The antlion 3.5 mins

Beaver the master builder

Beavers enjoy a lot of goodwill from people. Their way of life is fascinating and their accomplishments as lumberjacks and builders amaze us. Unlike most other wild animal, beavers actively shape their surroundings, creating habitats for other plant and animal species. However, beavers also share the same space with people, and this can sometimes lead to problems.



1 Rodents

Animals' teeth tell us what they like to eat. The beaver is the largest indigenous rodent, the harvest mouse is the smallest. Typical features of rodent teeth are long incisors and broad molars.

2 Predators and carnivores

A fox's teeth are characteristic of a predator's and a carnivore's teeth, with pronounced and pointed canines that serve as fangs. Its molars are narrow and sharp.

3 Insectivores

Insectivores such as hedgehogs have lots of pointy, sharp teeth with which to grasp their prey and crack the exoskeletons (external skeletons) that many insects have.

4 Herbivores and ruminants

Roe deer are herbivores and ruminants. Their molars are broad. They have a bony pad in the upper jaw. Their food is partially digested and then regurgitated to be crushed a second time between the pad and the tongue.

5 Omnivores

Humans are omnivores, i.e. they eat everything. Their teeth are neither pointy nor sharp. Their molars are not as broad as those of herbivores. Display case, from left to right: Skull of a harvest mouse The smallest rodent in Switzerland Skull of a beaver The largest rodent in Switzerland Skull of a fox Carnivore and predator Skull of a hedgehog Insectivore Skull of a roe deer Herbivore and ruminant Human skull Omnivore

6 Europe's largest rodent

Beavers belong to the order Rodentia. With more than 2500 species, rodents are the largest group of mammals. At over a metre in length and weighing up to 30 kg, beavers are the largest rodents in Europe.

Skeleton of a beaver Uesslingen TG, 2004

7 Giant beavers

The first beaver-like animals appeared some 50 million years ago. Over time, various species evolved, including the giant beaver, *Castoroides ohioensis* in America. It could grow to 2.5 metres in length and weigh approximately 200 kg.

Giant beaver Castoroides ohioensis

North America and Europe, became extinct c. 10,000 years ago Skull cast and body silhouette

2nd floor Beaver the master builder



1 Rather beefy!

A beaver's jaw produces approximately 80 kg of bite force per square centimetre. Humans can manage half of that, at best. Who can produce 80 kg using the beaver skull to squeeze the pliers?

2 Protective fur

Some 20,000 hairs grow on each square centimetre of beaver skin. The fur keeps the animal warm, and is also water-repellent. To ensure its service it has to be carefully maintained and lubricated with a glandular secretion. Hardly any other wild animal's fur is as dense as a beaver's. See for yourself.

Furs to touch, from left to right: Beaver Badger Stone marten Roe deer

3 A multifunctional tool

The tail of a beaver is a multifunctional tool. It acts as a rudder when diving, as a store of fat in winter, as a support when chopping down trees and as a padding to sit on when grooming. Beavers also use their tail to warn others of danger by slapping the water surface with it.

A handy gap between the teeth A beaver's jaw has a so-called diastema or gap behind the incisors; it is followed by flaps of skin which seal off the oral cavity. This means that beavers are able to chew branches even under water without wood chips or water getting into their throats.



6 Model of a beaver's hind foot

Operating the metal button on the handle will fan out the flipper-like model, thereby increasing resistance when it is drawn back. This is how the webbing works on the hind feet of a beaver.

6 Webbed feet

A beaver's strong hind feet are the size of a human hand. The toes are webbed. When the beaver swims around in the water, his toes fan out thus enlarging his feet and making them a rather efficient propulsion tool.

Adapted to a life in water

Beavers are adapted to living in water. Their stocky, streamlined build conserves energy when swimming and reduces the loss of body heat. Nose, ears and eyes are all arranged in a line and are always held above water. Thanks to their strong lungs, beavers can swim underwater for up to 15 minutes. **Taxonomy** • rodents • 2 species: the Eurasian beaver and the North American beaver • **body length** • between 80 and 100 cm, lifelong growth • **weight** • up to 30 kg • **diet** • vegetarian • food storage • **dentition** • 20 teeth • incisors grow continuously • **Senses** • acute sense of smell • good hearing • well-developed sense of touch • weak eyesight • **age** • in the wild 10 to 12 years • **reproduction** • mating season from December to February • gestation period approximately 105 days • litters of 2 to 3 kits each year • sexual maturity at 2 to 3 years • **behaviour** • small family units • active at dusk and during the hours of darkness • build structures, dams and channels • **territory** • along rivers and streams • 0.7 to 3 km stretches depending on food availability • young animals leave the group in their third year • **long-distance dispersal** • up to 100 km, even overland

<u>and floor</u> Beaver the master builder



Persecuted, disappeared, reintroduced The beaver disappeared from Canton Thurgau in the early 19th century, mainly due to extensive hunting. Beaver meat was a delicacy, the soft fur fetched a high price and the 'castoreum', a glandular secretion, was considered a miracle drug. Between 1966 and 1969, a total of 18 beavers were released into the wild in Canton Thurgau. Today, the thriving beaver population in Canton Thurgau is once again one of the largest in Switzerland.

1 An artist at work

This was not created by a wood artist but by a beaver. Using their sharp incisors, the hardworking animals can sometimes create veritable works of art. This tree trunk carved into a spiral was found in the alluvial forest at Niederneunforn. Why the beaver decided to create this beautiful shape will have to remain its secret.

Willow trunk gnawed by a beaver

Niederneunforn TG, 1990 Bequest A. Krämer, Frauenfeld

2 Caught in a trap

The soft fur of the beaver is still used today in the manufacture of coats and hats. Besides cage traps and fish traps, foothold traps were used to hunt beaver for a long time. The advantage of trapping the animals instead of shooting them was that traps did not damage the valuable pelts. In Switzerland beavers are protected today and the use of foothold traps is prohibited.

3

Beaver fur coat Second half of the 20th century Bequest I. Diesmann, Porto Valentina

4 Mr. And Mrs. Beaver's neighbours

A beaver family use up to 3 kilometres of near-natural riverbank. They share their habitat with many other animal species. Where river sections are upgraded to promote beaver welfare, it can also benefit other animal and plant species.

- 1 Alpine newt (female)
- 2 Northern crested newt
- 3 Smooth newt
- 4 Palmate newt
- 5 Muskrat
- 6 White stork
- 7 European tree frog
- 8 Little bittern
- 9 Great reed warbler
- 10 Little ringed plover
- 11 Agile frog
- 12 Common toad
- 13 Natterjack toad
- 14 Common frog
- 15 Yellow-bellied toad
- 16 Common midwife toad (male carrying a string of eggs)
- 17 Marsh warbler
- 18 Common reed bunting
- 19 Eurasian reed warbler
- 20 Western marsh harrier
- 21 Sand martin
- 22 Water rail
- 23 Corn crake
- 24 Kingfisher
- 25 Common cuckoo
- 26 Grey wagtail
- 27 Corn bunting



1 Family life

Beavers form small family units consisting of the parents and the kits from the past two years. The parents stay together for life. They look after their young together and are helped in this by the offspring from the year before. Each family defend their own territory. Depending on the available food sources, territories can stretch from a few hundred metres to 3 km along a river or lake.

2

Beavers on Barchet Lake 17 mins

3 Scent marks for the neighbours

Beavers use scent to mark their territory. They secrete a pungent oily substance, the castoreum. Humans can also smell the intense odour. Find out for yourself.

4 The beaver as a perfumer

Castoreum has been used in the production of perfume for a long time. 'Shalimar', a perfume which has been on the market for over 100 years, now contains manmade castoreum as its basic component. Find out for yourself.



1 Life below ground

In Switzerland beavers dig burrows in the ground, while classic beavers' lodges are rarely found. If the roof of a burrow collapses, it is repaired using branches, mud and grass. Burrow entrances are always under water. If the surface of the water is in danger of sinking below the entrance, the beavers build dams to regulate the water level. In Switzerland, dams only tend to be a few metres long. In Canada, dams of over 500 metres have been recorded. Beavers store food for the colder months.

2 Master builder for many

Beavers' building activities are also beneficial to many other plant and animal species. The felling of trees allows more light to flood into the area and encourages plant diversity on the ground. The building of dams creates water bodies for aquatic insects, dragonflies, amphibians and fish. Dammed areas eventually silt up leading to the formation of bogs and marshes.

- Grey heron
- Nuthatch

1

2

3

4

- Eurasian water shrew
- Bullfinch
- 5 Common moorhen
- 6 European polecat
- 7 European crayfish
- 8 River trout
- 9 Winter supply (sugar beet)

Small-scale museums

This section presents two treasures from our collection. Both the wooden library and the wax models of fruit varieties were created around 1800. What seems unique today was in fact produced and distributed in various limited series. The volumes in the wooden library and the fruit models were created to provide easy-tounderstand illustrations to accompany works of expert literature.

Their beauty was striking, even at the time they were first made, and they imparted knowledge in a hands-on manner. Both wooden books and wax fruits were intended to educate people and to bring them joy – and that is why we can view them as small-scale museums.

Books made of wood

The wooden library by Candid Huber Between 1790 and 1804, the German Benedictine monk Candid Huber created several wooden libraries. Each of the 135 volumes of the *Ebersberg wooden library* on display here was made of the species of wood which it represents, and each volume contains a herbarium of parts of the tree species concerned. In addition, Candid Huber wrote a textbook to accompany the wooden libraries. The expert knowledge contained in both the textbooks and the libraries was aimed at helping aristocrats and monasteries who owned woodlands to properly maintain their resources.

The wooden library at the Natural History Museum of Thurgau is one of the largest examples created by Candid Huber, of which around a dozen are still in existence throughout Europe.



1 By order of use

The wooden books are divided into seven classes of timber, each in a different format. The largest books are dedicated to the most valuable timbers suitable for construction while the smallest deal with woody climbers and creepers such as the blackberry.

2 Loaded books

The book covers are hollowed out and filled with various parts of the trees or shrubs represented. They include a branch from summer growth, one from winter growth, the fruit of the tree and its seedling with roots. Some volumes also contain a root wood plaque or a pest insect.

3 A sensory experience

The wooden books portray each species of wood while also allowing the audience to feel the weight, hardness and structure of the wood with their own hands. They vividly demonstrate how each type of wood can be worked with a saw, a plane or a carving knife.

Display case, from left to right: Class I Construction timber Class II Construction timber size I Class III Construction timber size II Class IV Construction timber size III Class V Shrubs Class VI Subshrubs Class VI Subshrubs

4

Activate the touch screen and delve into the world of the wooden library.

Fruit made of wax

The Pomologisches Cabinet by J. V. Sickler Johann Volkmar Sickler, a clergyman and pomicultural expert from Thuringia had these 299 wax models of various pome and stone fruits made between 1795 and 1811. He distributed the Pomologisches Cabinet [Pomological Cabinet] in conjunction with his specialist journal Der Teutsche Obstgärtner [The German fruit grower]. Pomology, the study of fruit cultivation, experienced its heyday around 1800. Identification, classification and knowledge of fruit varieties is a basic prerequisite for the successful cultivation and production of fruit.

Eight series of models by Johann Volkmar Sickler still survive today. The Natural History Museum of Thurgau acquired this well-maintained, almost complete and excellently preserved collection from the Hess Family in Zurich in 2016.



1

Activate the touch screen and delve into the world of wax fruits.

Pomology in 22 volumes

In 1794, Johann Volkmar Sickler began to publish Der Teutsche Obstgärtner [The German Fruit Grower], a specialist pomological journal. In the beginning there were eight publications issued annually, with the number rising to twelve from 1797 to 1804. Here, all issues are gathered together in 22 volumes, forming a comprehensive work on fruit cultivation.

3 Expertise to suit all budgets

By publishing individual issues several times a year Sickler made it possible for his target audience of ordinary citizens and farmers to buy the journal in instalments. This was easier than paying a large sum for a whole textbook. In this way, Sickler shared his knowledge with the general public – entirely in keeping with the Enlightenment.

4 Fruit from the confectioner

When a reader of *Der Teutsche Obstgärtner* [The German Fruit Grower] suggested that the different varieties could be reproduced in wax similar to the lifelike anatomical models used by medical students, Sickler commissioned a series of wax fruits from skilled confectioner Ernst Heinrich Gebhard.

Display case, from left to right: Medlar Hazelnut Peaches Apricot Cherries Plums Pears Apples

5 Just like a chocolate bunny

Sickler selected typical fruits. Gebhart used them to create plaster casts into which he poured a thin layer of wax. Once the wax had cooled, he opened the mould and took out the fruit, polished and coloured it and added replicas of the stalk and calyx.

6 Deceptively real

The basic material used to make the models was beeswax. The surfaces were painted with transparent colours to make them look natural. A fine powder was added to the dyes used for apricots, and fibres were mixed in with the peach dyes to imitate the natural surface structure of these particular fruits.

7 The lord of the Brandschenke manor

In the 18th and 19th centuries, the ancestors of the Hess Family ran the Brandschenke manor in Zurich, which also included a tree nursery and an orchard. The lord of the manor probably had a subscription to *Der Teutsche Obstgärtner* [The German Fruit Grower] and its wax fruits.

3 A well-organised repository

To store his wax fruits, the lord of the manor had 14 boxes made with compartments for each individual model. The compartments are labelled with information, cut from the delivery slips, about each variety, including the name of the variety, the ripening season and its storability.

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