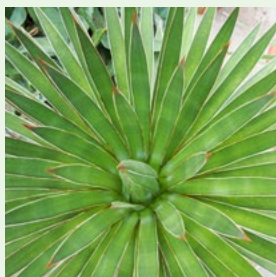


Special Collections of the Palmengarten and Botanical Garden



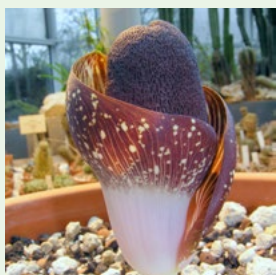
Agaves 6 14

Agaves are native to the region from the southern United States to northern South America. They are adapted to dry conditions and form rosettes of spiny leaves. With over 200 acquired accessions, our collection comprises almost half of all 225 known species. A few plants can be seen in the Tropicarium, while most are displayed in the Summer Succulent Garden during the warm season.



Aloe 6 10 11 15

Broadly speaking, aloes also include the genera *Aloidendron*, *Aloiampelos* and *Kumara*. The Palmengarten holds an extensive collection with around 320 accessions representing nearly 200 species. Geographical focus areas are Madagascar, Arabia and southern Africa. Some of the plants can be viewed from outside in the succulent collection, while others grow in the Tropicarium.



Aroids 4 8

This collection comprises around a third of all known *Amorphophallus* species, as well as representatives of the genera *Anthurium* and *Philodendron*. Many plants are on permanent display in the Tropicarium; others, such as the giant titan arum with the world's largest pseudanthium, are only displayed there during their flowering period.



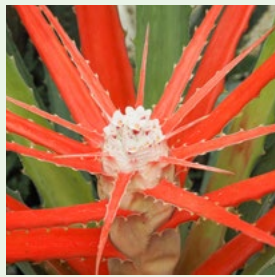
Azaleas 19

The extensive assortment comprises over 300 varieties and hybrids, predominantly indoor azaleas of the species *Rhododendron simsii*. The inventory is registered with the Federal Plant Variety Office and constitutes part of the German Rhododendron Gene Bank. During the flowering season, selected plants are displayed in an exhibition gallery as part of a flower show.



Blackberries 27

Since around 1990, the Frankfurt Botanical Garden has maintained an extensive blackberry collection comprising 44 species native to the region. A special bed features 28 of the approx. 180 *Rubus* species found in Hesse, providing a good overview of this large native genus, whose species are difficult to distinguish and identify.



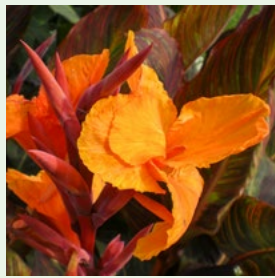
Bromeliads 7 17

With one exception, all members of the bromeliad family are native to the New World. Many grow on trees or rocks. With around 1,600 accessions and 700 species, our bromeliad collection is particularly extensive. One of the Palmengarten's most important collections, it is often used in research projects and includes a large share of accessions collected in the wild.



Camellias 19 22

Camellias were part of the Palmengarten's original collection and are traditionally displayed in an annual flower show. Today, the garden's assortment includes over 120 cultivars, which are registered in the Camellia sub-network of the Federal Plant Variety Office. Winter-hardy camellias are planted in various outdoor locations, e.g., next to the Butterfly House.



Canna 9

The genus *Canna* belongs to the ginger family and is native to the Neotropics. Its asymmetrical flowers are remarkable, with most of the stamens transformed into petal-like showy structures. The horticultural assortment comprises around 30 cultivars, which in summer are displayed outdoors in the Palmengarten.



Carnivorous plants 18

Carnivorous plants are always a crowd pleaser and are used extensively for educational purposes. The collection currently comprises around 120 accessions representing 90 species, many of which can be viewed in two large display cases. Most genera and trapping mechanisms are shown there and explained on information boards.



Cycads 6 12 15 16

With around 170 accessions, the Palmengarten hosts an exceptional abundance of cycads. The collection includes numerous rare and endangered species, with the genus *Encephalartos* being particularly well represented. Many of the plants can be seen in the display houses and, in summer, in pots outdoors near the Tropicarium.



Endangered species in Germany 25

The Botanical Garden cultivates and propagates regionally endangered plant species, especially those that fall within the responsibility of the state of Hesse. In certain cases, these plants are also reintroduced to suitable locations in consultation with authorities and nature conservation associations to support endangered populations.



Flora of the Canary Islands 24

The flora of the Canary Islands has an abundance of endemic species and is considered a textbook example of island biogeography, with unusual species and Tertiary relics. Over 130 plant species from Macaronesia (Azores, Madeira, Canary Islands and Cape Verde) are displayed in special outdoor beds in the Botanical Garden during the summer.



Flora of the Fog Deserts 11

Some very arid regions receive a large part of their water supply from fog that drifts inland from the sea. The Tropicarium's Fog Desert House displays around 80 rare species from these fog deserts, primarily from the Namib, including specialties such as the famous *Welwitschia mirabilis*.



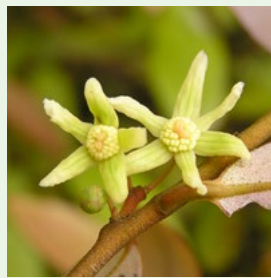
Flora of Madagascar 6 15

Madagascar is home to an extraordinarily large number of endemic plant species. The Palmengarten houses significant collections of this particularly interesting and endangered island flora. Ecological emphasis is on arid regions and spiny forests, which have their own dedicated house in the Tropicarium. Additional species can be seen in other display houses and in the succulent collection.



Flora of Mexico 6 10 17

Mexico is one of the most species-rich areas in the world. Thanks to collecting trips by Palmengarten staff since the 1970s and overlap with other collection priorities (e.g., agaves, bromeliads), Mexico's flora is well represented in the Palmengarten and is displayed in the Semi-Desert House, among other places.



Flora of the Subantarctic region 3

The Palmengarten is one of the few botanical gardens that collect plants from the Earth's southernmost regions. Our Subantarctic House is unique. Geographical highlights include South America from the Valdivian rainforest to Patagonia and Tierra del Fuego, New Zealand's South Island and the subantarctic islands.



Fuchsias 13

Fuchsias are popular ornamental plants, and the Palmengarten nursery maintains an extensive range of species and horticultural varieties. During the warm season, parts of the collection are displayed outdoors, particularly in a dedicated Fuchsia Garden next to the Tropicarium.



Horsetails 28

Horsetail relatives already thrived in the world's primeval forests. Only a fraction of this formerly species-rich group remains today. The Botanical Garden's nearly complete collection features 34 species and naturally occurring hybrids of the genus *Equisetum*, with a high proportion of specimens collected in the wild.



Marsh and aquatic plants 26

The Botanical Garden cultivates a remarkable selection of marsh and aquatic plants. Most of the 220 species are displayed in specially constructed pools in the southern part of the garden. Visitors can discover native rarities that are hardly ever found in botanical gardens. Many species of marsh and aquatic plants are now rare and endangered.



Notocactus (Parodia) 6

Since 1977, a conservation collection of *Notocactus* species (now placed in the genus *Parodia*) has been established in the Palmengarten in order to propagate endangered species and reintroduce them into their countries of origin after a large part of their natural habitat has been destroyed. The collection is one of the largest of its kind worldwide and is also of interest to researchers.



Orchids 4

As exceptionally precious plants, tropical orchids were part of the Palmengarten's stock from the very beginning. Especially during Director Schoser's tenure, the collection was expanded, scientifically curated and, if not before, certainly gained international renown at the 8th World Orchid Congress in Frankfurt in 1975. Even today, orchids still represent the most species-rich collection in our gardens.



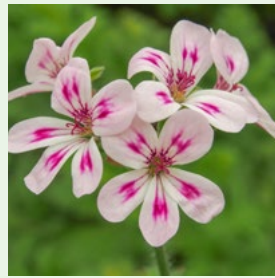
Pachypodium 6 15

Pachypodium is a genus of stem succulent dogbane plants, which also includes the Madagascar palm, a well-known houseplant. Our collection comprises most of the known species, including many from documented wild sources in Madagascar. The plants are propagated by means of controlled pollination.



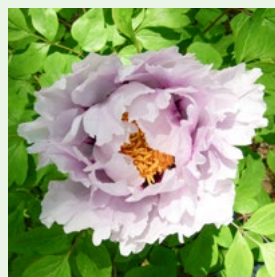
Palms 5 12 15 20

The palm collection dates back to the founding days of the Palmengarten and remains particularly extensive to this day. Many palm species are shown in the display houses, while few grow outdoors; they are a hallmark of the Palmengarten. Palms also play a major role in education; there are guided tours and other educational offerings even for kindergartens.



Pelargoniums 2

Pelargoniums are more diverse than the well-known balcony geraniums. Around 90 cultivars are cultivated here, primarily scented pelargoniums and unusual, occasionally shrubby varieties that are displayed in a special bed outside Haus Leonhardsbrunn in summer. Some species are also on display in the Tropicarium's Dry Tropics section.



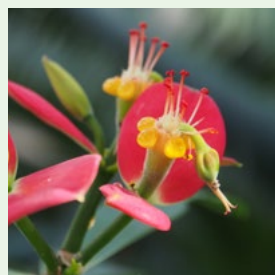
Peonies 1 21 23

The Palmengarten's outdoor areas, especially the Perennial Garden, feature around 100 varieties of tree and herbaceous peonies, including some old varieties, which are spectacular when in bloom. Tree peonies can also be found near the seating areas north of the galleries, and herbaceous peonies outside the café by the small pond. Other varieties are shown in the Botanical Garden.



Sansevierias 12 15

Sansevierias, also known as bow string hemp due to their use as fibre plants, are popular and robust indoor plants with rhizomes and sturdy, succulent leaves. Based on recent findings, they are now usually placed in the genus *Dracaena*. The Palmengarten cultivates about one third of the known *Sansevieria* species, displaying some of them in the Tropicarium.



Spurges 6 10 11 15

Euphorbia is one of the largest and most diverse genera in the plant kingdom. Our collection comprises over 370 accessions representing 175 species, primarily succulents from arid tropical regions. Along with cacti and members of the dogbane family, they provide textbook examples of convergent evolution in adaptation to similar environmental conditions.



Uncarina 15

Uncarina is a genus in the sesame family endemic to Madagascar. These are small shrubs with large, yellow or white flowers and characteristic fruits covered with barbed spines. The garden's 58 accessions comprise all known species of the genus. Most of the plants originate from documented locations in the wild.

Plant collections of the Palmengarten and Botanical Garden

The Palmengarten and Botanical Garden arose from various plant collections that were expanded and modified over time. New focal areas were added to the collections. Many of these evolved from themes in display houses, topical gardens, exhibitions, education, research or species conservation. The focus is often on related groups, regions or habitats, and in the Palmengarten also on ornamental plants. A few collections are located in non-public areas, but most are open to the public year-round or at specific times.

Plants from the following collections are displayed here:

- A

year-round
- B

only at certain times
- Agaves

614
- Aloe

6101115
- Aroids

48
- Azaleas

19
- Blackberries

27
- Bromeliads

717
- Camellias

1922
- Canna

9
- Carnivorous plants

18
- Cycads

6121516
- Endangered species in Germany

25
- Flora of the Canary Islands

24
- Flora of the Fog Deserts

11
- Flora of Madagascar

615
- Flora of Mexiko

61017
- Flora of the Subantarctic region

3
- Fuchsias

13
- Horsetails

28
- Marsh and aquatic plants

26
- Notocactus (*Parodia*)

6
- Orchids

4
- Pachypodium*

615
- Palms

5121520
- Pelargoniums

2
- Peonies

12123
- Sansevierias

1215
- Spurges

6101115
- Uncarina*

15

The following collection highlights are not shown in the map:

- Begonias

many in the non-public nursery, some in the display houses.
- Citrus

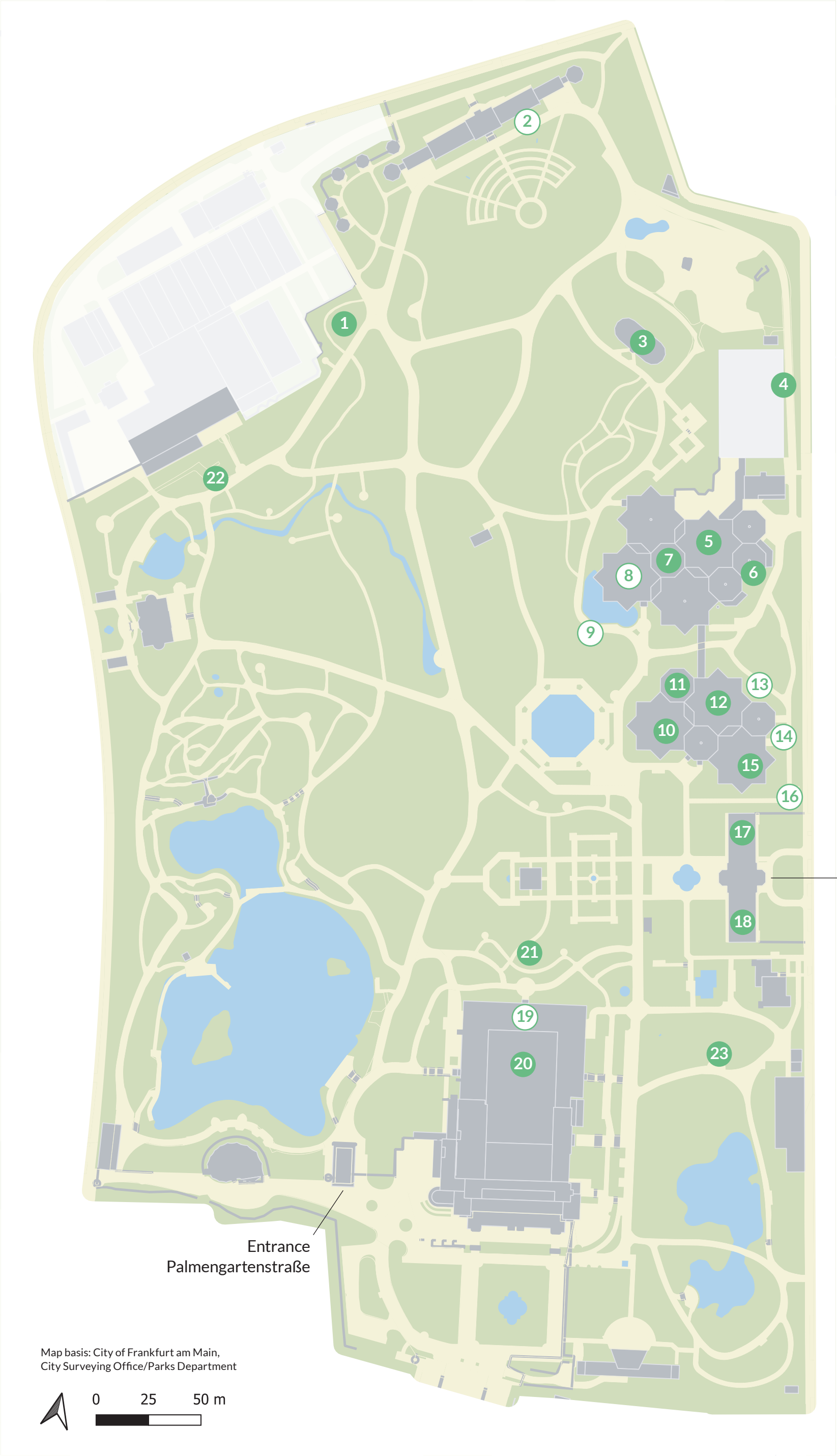
mainly in the nursery; singles occasionally at the Butterfly House.
- Native plant species

focus in the Botanical Garden, endangered species with red labels.
- Haworthia

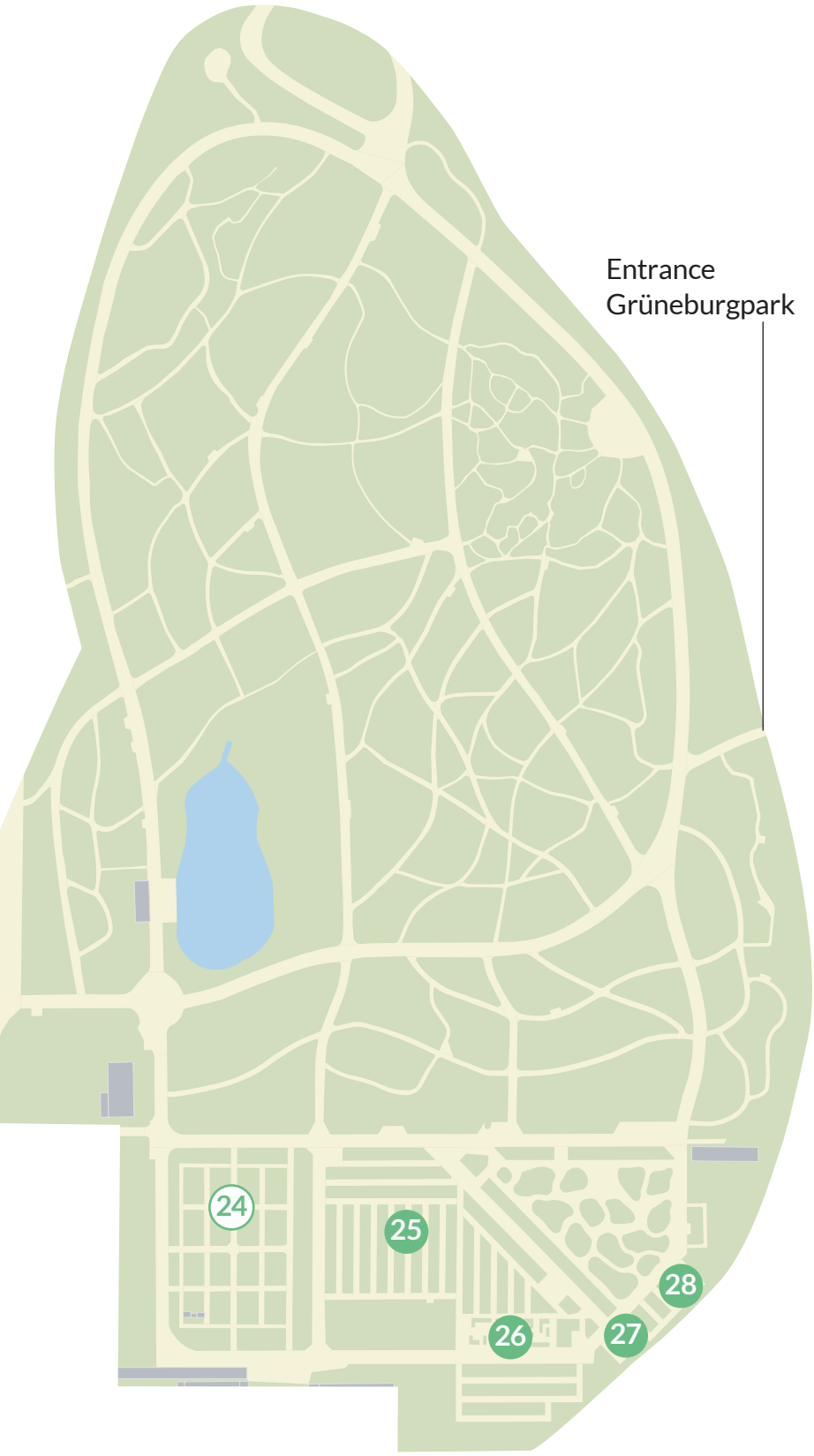
primarily in the non-public botanical collection.
- Trees and shrubs

see fold-out maps "Notable Trees and Shrubs" for both gardens.

Palmengarten



Botanical Garden



Location of the gardens in Frankfurt-Westend

