



L-Università ta' Malta
Argotti Botanic Gardens
& Resource Centre



Index
Seminum
2024

Argotti Botanic Gardens
University of Malta section
Vincenzo Bugeja Street
Floriana, FRN 1553
Malta

INDEX SEMINUM YEAR 2024

Seeds collected in 2022/2023

argottigardens@um.edu.mt

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Disclaimer

The seeds listed in this Index Seminum have all been collected in 2022 or 2023. The seeds are a result of open pollination, therefore the purity of the species cannot be assured. The seeds listed include the seed accession number (SD) as well as the date of collection.

Each seed, upon collection, has been left in a dry heater for a minimum of 8 weeks followed by storage in a dry place with silica gel to ensure dehydration.

Due to the short supply of some species, seeds will be dispatched on a first-come-first-served basis. Please indicate your order on the enclosed order form. Please limit your orders to 10 species.

Please give us your order before April 30th 2024 and if you are not an IPEN member, please take note of the Convention on the exchange of plant material on the order form and sign it, otherwise, seeds cannot be sent to you.

Information regarding the site



Figure 1: Google Earth image marking the location of the Maltese Islands situated in the centre of the Mediterranean Sea

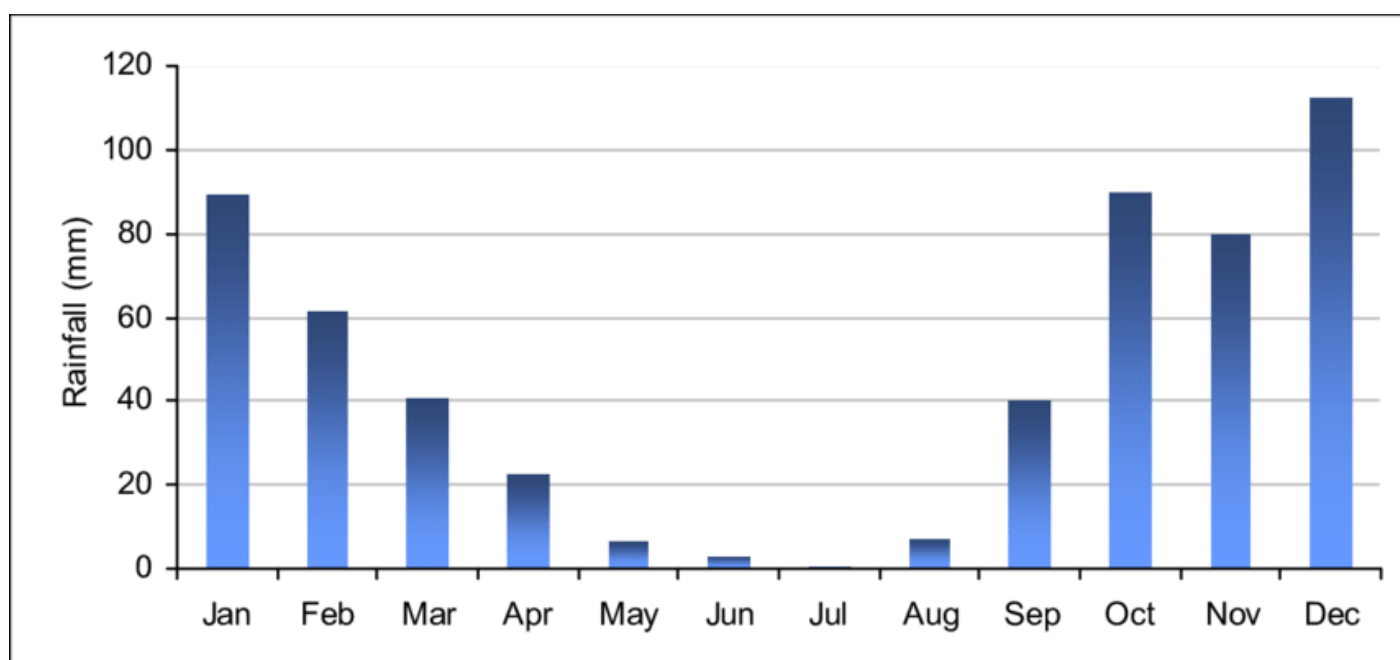


Figure 2: Graph noting the annual precipitation of the Maltese Islands from 1990 – 2010 (Galdies, 2011)

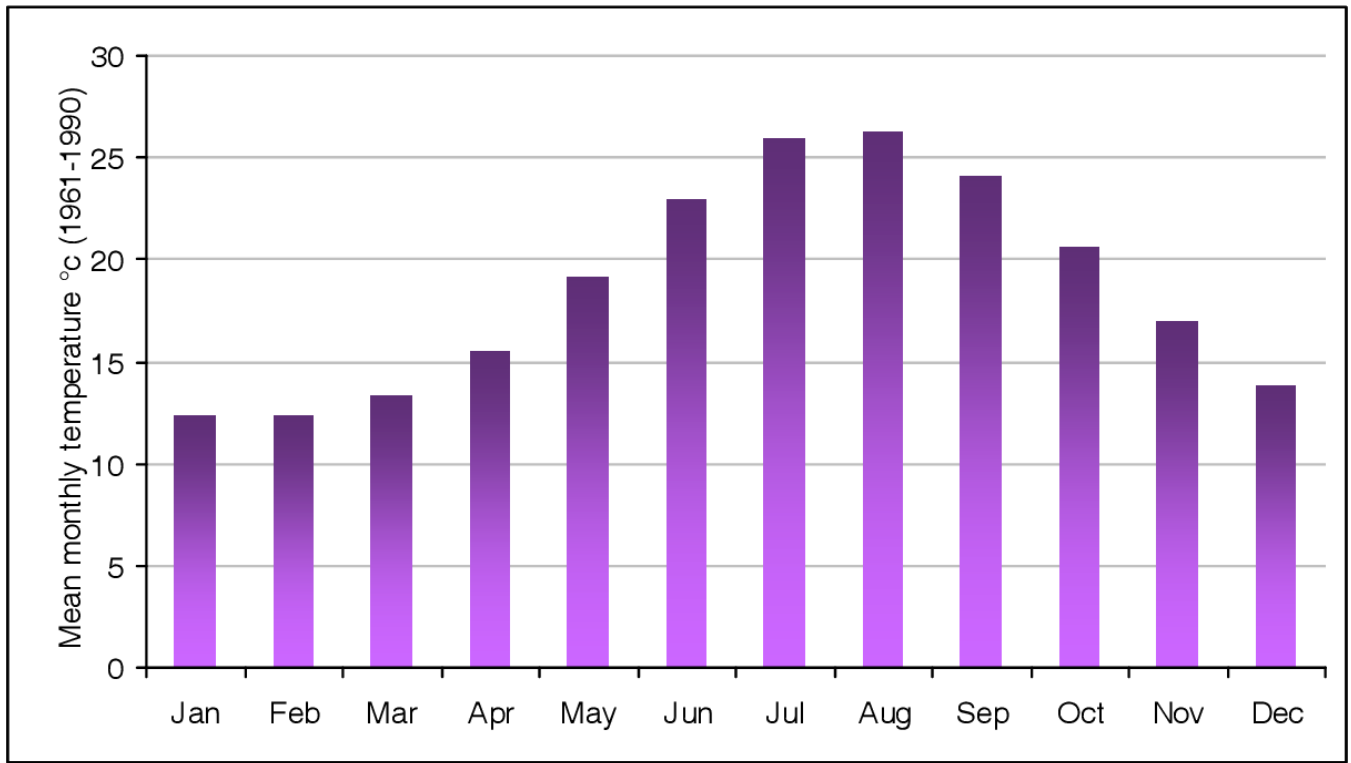


Figure 3: Graph noting the annual temperature fluctuations of the Maltese Islands from 1961 – 1990 (Galdies, 2011)



Figure 4: Google Earth close-up of the Maltese Islands, marking the location of Argotti Botanic Gardens and Resource Centre

References

Galdies, C. (2011). The Climate of Malta: statistics, trends, and analysis 1951-2010.

Brief History Argotti Botanic Gardens

Argotti Gardens started as two private gardens in the early 17th century, one belonging to Knight Don Emmanuel Pinto De Fonseca and the other to Bailiff Ignatius De Argote y Gusman. Following Pinto's election to Grand Master in 1741, De Argote purchased Pinto's part, annexed it to his garden, and built his summer residence here. The gardens were further embellished with fountains, a unique Nymphaeum, and a majestic entrance. Exotic plants were introduced and some of the specimens, dating as far back as 250 years, can still be found in the gardens.

In 1647, the Knights of the Hospitaller and Military Order of St John established a physic garden in Valletta's Fort St Elmo near the Sacra Infermeria. When the British arrived in Malta, they implemented the idea of Fra Guisepppe Zammit, a priest physician of the order, of having a larger botanical garden. This led to priceless stone urns, as well as medicinal plants and other botanical specimens being relocated from St Elmo to a number of gardens in Floriana. This was done under the supervision of Carolus Giacinto, a Carmelite monk, and Professor of Botany who was appointed the first Chair of Natural History by the University of Malta in 1805.

Several eminent professors of Natural History contributed to the development of Argotti as a botanical garden for the study of Maltese botany. Amongst them was Prof. Stefano Zerafa who, upon the death of Carolus Giacinto in 1855, undertook the full transfer of the botanical collection dispersed around Floriana to the Argotti gardens. The garden's collection was further enhanced by contributions of leading Maltese botanists, such as Count Alfred Caruana Gatto and Prof. John Borg. The latter contributed his unique collection of cacti to the Argotti Gardens towards the end of 1945, a few months before he died.

The gardens were taken over in 1973 by the Department of Agriculture thus interrupting over 150 years of University tenure. The inner part of the gardens was returned to the University in 1996 and full rehabilitation started with restoration works and rebuilding of the collection.

Table 1 Information Regarding Argotti Botanic Gardens

Foundation Date	1805
Area	4000 m ²
Latitude	35° 54'N
Longitude	14° 30'E
Elevation	193 m
Soil	Calcareous
pH	8.3

Collected from the Argotti gardens

Number. <i>Scientific Name</i> IPEN Number Seed Accession number – Date of Collection
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Aizoaceae

1. *Mesembryanthemum crystallinum* MT-0-ARG-2018 154
SD02931 – 14.06.23

Amaranthaceae

2. *Celosia argentea* XX-0-ARG-2023 057
SD02811 – 09.07.23
3. *Salsola melitensis* MT-0-ARG-2002 022
SD02951 – 29.11.23

Amaryllidaceae

4. *Pancratium foetidum* MT-0-ARG-2009 005
SD02494 – 06.01.23

Apiaceae

5. *Daucus carota* XX-0-ARG-2011 205
SD02953 – 19.11.23
6. *Daucus carota subsp. rupestris* MT-0-ARG-2002 208
SD02833 – 18.10.23
7. *Smyrniolum olusatrum* MT-0-ARG-2002 024
SD02217 – 14.11.23

Asparagaceae

8. *Drimys maritima* MT-0-ARG-2001 204
SD02878 – 13.11.23
9. *Asparagus asparagoides* XX-0-ARG-2001 259
SD02939 – 27.11.23
10. *Asparagus aphyllus* MT-0-ARG-2001 258
SD02500 – 06.01.23

Asphodelaceae

11. *Aloe striata* XX-0-ARG- 2001 118
SD02795 – 06.05.23

Asteraceae

12. *Cheirolophus crassifolius* MT-0-ARG-2005 025
SD02856 – 03.08.23
13. *Dittrichia viscosa* MT-0-ARG- 2001 190
SD02464 –08.11.23
14. *Nipponanthemum nipponicum* XX-0-ARG-2019 020
SD02859 – 31.10.23

Bignoniaceae

15. *Podranea ricasoliana* XX-0-ARG-2010 007
cv. 'Contessa Sara' SD02520 – 12.12.22
16. *Tecoma capensis* XX-0-ARG-2001 050
SD020521 – 12.12.21
17. *Tecoma stans* XX-0-ARG-2009 027
SD02713 – 08.02.23

Boraginaceae

18. *Cerinthe major* XX-0-ARG-2001 387
SD02822 – 10.04.23

Brassicaceae

19. *Matthiola incana* var. *melitensis* MT-0-ARG-2002 042
SD02879 – 10.10.23

Cactaceae

20. *Pachycereus pringlei* XX-0-ARG- <1994-001
SD02819 – 08.08.23

Caprifoliaceae

21. *Centranthus ruber* XX-0-ARG-2001 129
SD02938 – 29.05.23

Cistaceae

22. *Cistus monspeliensis* MT-0-2021 064
SD02941 – 10.08.23

Cupressaceae

23. *Tetraclinus articulata* MT-0-ARG-1994008-20
SD02904 – 13.11.23
24. *Cupressus sempervirens* XX-0-ARG-2011 232
SD02496 – 12.12.22
25. *Plactyladus orientalis* XX-0-ARG-1994013-45
SD02467 – 12.12.22

Euphorbiaceae

26. *Euphorbia dendroides* MT-0-ARG-2001 031
SD02806 – 29.05.23

Fabaceae

27. *Astragalus boeticus* MT-0-ARG-2003 022
SD02838 – 04.05.23
28. *Anagyris foetida* MT-0-ARG-1995045-71
SD02727 – 30.07.23
29. *Coronilla valentina subsp. glauca* MT-0-ARG-2019 016
SD2781 – 19.05.23
30. *Lotus cytisoides* MT-0-ARG-2009 003
SD02910 – 25.06.23
31. *Medicago arborea* MT-0-ARG-2005 015
SD2976 – 22.08.23
32. *Prosopis pallida* XX-0-ARG-2012 003
SD2458 – 05.01.23
33. *Sophora davidii* XX-0-ARG-2013 100
SD02929 – 04.09.23
34. *Sophora secundiflora* XX-0-ARG-2004 039
SD02906 – 06.10.23

35. *Vicia hirsuta* FR-0-ARG-2021 133
SD02769 – 18.05.23

Geraniaceae

36. *Pelargonium crispum* XX-0-ARG-2012 079
SD02461 – 05.01.23

37. *Geranium purpureum* XX-0-ARG-2020 037
SD02774 – 31.05.23

Iridaceae

38. *Iris pseudacorus* MT-0-ARG-2001 058
SD02754 – 10.01.23

Lamiaceae

39. *Phlomis fruticosa* MT-0-ARG-2001 055
SD02962 – 10.08.23

40. *Salvia africana-caerulea* XX-0-ARG-2001 236
SD02760-03.05.23

41. *Salvia africana-lutea* XX-0-ARG-2012 066
SD02393-13.05.23

42. *Teucrium flavum* MT-0-ARG-2001 230
SD02815 – 10.10.23

43. *Thymbra capitata* MT-0-ARG-2013 111
SD02453 – 12.07.22

44. *Lavandula multifida* XX-0-ARG-2011 113
SD02861 – 12.07.23

45. *Ocimum gratissimum* XX-0-ARG-2013 220
SD02923 – 08.05.23

Malvaceae

46. *Gossypium barbadense* XX-0-ARG-2021 003
SD02771 – 06.04.23

47. *Malva arborea* XX-0-ARG-2002 133
SD02447 – 11.07.22

Papaveraceae

48. *Papaver rhoeas* XX-0-ARG-2023 058
SD02779 – 03.05.23

Plantaginaceae

49. *Antirrhinum majus* XX-0-ARG-2013 146
SD02772 – 19.05.23

Poaceae

50. *Coix lachyrma-jobi* MT-0-ARG-2012 081
SD02712 – 27.07.23

51. *Setaria palmifolia* XX-0-ARG-2009 023
SD02475 – 13.01.22

Rosaceae

52. *Sarcopoterium spinosum* MT-0-ARG-2012 009
SD02766 - 25.05.23

Rutaceae

53. *Ruta chalepensis* MT-0-ARG-2010 114
SD02937 - 10.08.23

Sapindaceae

54. *Dodonaea viscosa* XX-0-ARG-19944019-54
SD02522 - 16.06.23

Sapotaceae

55. *Argania spinosa* XX-0-ARG-2009 055
SD02045 - 30.09.21

Solanaceae

56. *Withania somnifera* XX-0-ARG-2011 162
SD02851 - 09.06.23

Typhaceae

57. *Typha domingensis* MT-0-ARG-2001 045
SD02807 - 06.02.23

Zygophyllaceae

58. *Zygophyllum creticum*

MT-0-ARG-2005 023

SD02468 - 12.07.22

Collected from outside Argotti by the Habitat Restoration Unit – Ambjent Malta

Cyperaceae

59. *Carex extensa*

MT-0-ARG-2023 022

SD02541 – 06.10.22

– From Wied Musa

Rosaceae

60. *Crataegus monogyna*

MT-0-ARG-2023 025

SD02907 – 11.06.22

– From Wied Musa

Convention on Biological Biodiversity

In response to the International Convention on Biological Diversity, Argotti Botanic Gardens and Resource Centre exchanges seeds only with members of the International Plant Exchange Network (IPEN), unless the agreement on the supply of living plant material for non-commercial purposes for leaving the International Plant Exchange Network is signed.

The current IPEN members are listed at:

<https://www.bgci.org/our-work/inspiring-and-leading-people/policy-and-advocacy/access-and-benefit-sharing/the-international-plant-exchange-network/>

Agreement on the supply of living plant material by the Argotti Botanic Gardens & Resource Centre (ABGRC) for non-commercial purposes

Against the background of the *Convention on Biological Diversity* ("CBD") and the *Nagoya Protocol on Access to Genetic Resources and the Fair and Equitable Sharing of Benefits arising from their Utilization of the Convention on Biological Diversity*, the ABGRC is dedicated to promoting the conservation, sustainable use, and research of biological diversity. The ABGRC (the "supplier") therefore expects its partners in acquiring, maintaining, and transferring plant material to always act in accordance with the CBD, the Nagoya Protocol, and the Convention on the International Trade in Endangered Species (CITES).

The responsibility for legal handling of the plant material listed below passes on from the supplier to the recipient upon receipt of the material. In line with the Code of Conduct of the International Plant Exchange Network (IPEN), of which the ABGRC is a member, the following conditions apply to this material transfer:

1. The recipient may **use the supplied plant material**, progeny, or derivatives only **for non-commercial purposes** such as scientific study, education, and conservation. Should the recipient at a later date intend a commercial use or a transfer to third parties for commercial use, the country of origin's prior informed consent (PIC) must be obtained in writing before the material is used or transferred.
2. The recipient is responsible for ensuring an **equitable sharing of benefits** in accordance with the CBD and the Nagoya Protocol.

3. The recipient must **keep all information on the received plant material**, including its origin (supplier, country of origin, year of collection) and the IPEN number, as well as the terms and conditions in a comprehensible manner.
4. In the event that scientific publications are produced based on the supplied plant material, the recipient is obliged to **indicate in those publications the origin of the material** (the supplying garden and, if known, the country of origin) as well as the IPEN number. The recipient shall send a copy of these publications to the supplier.
5. On request, the supplier will **forward relevant information** on this transfer of the plant material to the body charged with implementing the Nagoya Protocol¹.
6. The recipient may **transfer the received plant material**, its progeny, or derivatives only for non-commercial use to bona fide third parties. Such transfer to third parties **must be under the terms and conditions of this agreement**, including the obligation to keep, cite, and transfer the IPEN number. The recipient must document the transfer in a suitable manner.

I accept the above conditions.

Name: _____

Date: _____

Signature: _____

Address to:

Argotti Botanic Gardens

University of Malta section

Vincenzo Bugeja Street

Floriana FRN 1553

Malta

Email: argottigardens@um.edu.mt

Tel.: +356 23407875/6/7

¹ usually the competent national authority in the supplier's home country

REQUEST FOR SEEDS:

Return to:

argottigardens@um.edu.mt

Argotti Botanic Gardens

University of Malta section

Vincenzo Bugeja Street

Floriana FRN 1553

Malta

or send via email:

Your address in CAPITAL letters:

Email:

Index Seminum 2024

DESIDERATA

Request for seeds should be sent by 30th April 2024

Please limit your order to 10 different seeds.

Please note that some seeds are in short supply.